





Uma
INORNATA

Uma INORMATA

Uma inornata Temps for One Day

(22 May 1963)

A.M.

Time Temp

0730 38.0

0800 34.8

0805 37.4

0815 36.4

0825 37.4

0830 38.2

0845 38.0

0905 37.4

0920 39.0

0945 39.0

0950 42.0

0955 40.4

1015 40.6

1020 42.0

1050 36.6

1055 36.2

1115 39.4

1120 32.4

1145 33.6

1155 35.8

P.M.

Time Temp

1205 36.0

1210 36.4

1215 37.0

1215 37.6

1235 38.8

1255 38.6

1305 43.2

1320 39.0

1325 38.4

1400 38.0

1405 38.2

1425 39.2

1430 36.2

1440 40.6

1515 39.6

1525 38.4

1530 38.4

1535 38.4

1545 39.0

1550 35.0

1605 34.2

1615 36.0

1620 35.6

1635 35.0

$$\Sigma X = 754.6$$

$$N = 20$$

$$\bar{X} = 37.7$$

$$\Sigma X = 906.8$$

$$N = 24$$

$$\bar{X} = 37.7$$

Uma INORNATA TEMPS
(BY MONTH)

FEBRUARY

x	x ²	x	x ²	x	x ²	x	x ²	x	x ²	x	x ²
35.0	1225.00										
31.0	961.00										
36.8	1354.24										
37.6	1413.76										
36.4	1324.96										
38.2	1459.24										
38.4	1474.56										
38.6	1489.96										
32.8	1075.84										
36.2	1310.44										
36.0	1296.00										
37.2	1383.84										
37.0	1369.00										
38.8	1505.44										
37.4	1398.76										
36.2	1310.44										
40.0	1600.00										

$$\Sigma x = 623.6$$

$$N = 17$$

$$\Sigma x^2 = 22,952.48$$

$$\bar{x} = 36.68$$

$$(\bar{x})^2 = 1345.42$$

$$s^2 = 5.02$$

$$s.e. = \sqrt{1.295}$$

$$= 1.138$$

$$\text{Range} = 31.0 \text{ to } 40.0$$

$$\bar{x} = 36.7$$

$$2s.e. = 35.6 - 37.8$$

WOMAN TEMPS
(BY MONTH)

FEBRUARY

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Vma INORNATA TEMPS (BY MONTH) MARCH

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
38.8	1505.44	33.6	1128.96	$\bar{X} = 36.44$							
37.7	1421.29	33.2	1102.24	$(\bar{X})^2 = 1327.87$							
38.3	1466.89	39.4	1552.36	$S^2 = 7.66$							
43.0	1849.00	42.5	1806.25	$S.E. = \sqrt{.139}$							
36.9	1361.61	38.4	1474.56	$= .373$							
35.4	1253.16	38.0	1444.00	$RANGE\ 25.8 - 43.0$							
25.8	665.64	35.8	1281.64	$2\ S.E. = .8 = 37.2 - 35.6$							
36.8	1354.24	38.4	1474.56								
37.5	1406.25	38.2	1459.24								
36.9	1361.61	$\Sigma x = 1413.0$									
38.0	1444.00	$N = 39$									
33.2	1102.24										
37.5	1406.25	36.4	1324.96								
37.5	1406.25	38.2	1459.24								
39.0	1521.00	37.2	1383.84								
35.8	1281.64	36.6	1339.56								
36.4	1324.96	37.0	1369.00								
36.5	1332.25	38.0	1444.00								
37.6	1413.76	38.6	1489.96								
35.8	1281.64	35.0	1225.00								
34.6	1197.16	38.0	1444.00								
34.0	1156.00	37.4	1398.76								
29.5	870.25	35.8	1281.64								
33.8	1142.44	37.0	1369.00								
32.0	1024.00	38.0	1444.00								
35.2	1239.04	35.0	1225.00								
36.0	1296.00	36.0	1296.00								
35.0	1225.00	37.4	1398.76								
35.2	1239.04	$2004.6 = \Sigma x$									
35.8	1281.64	$N = 55$									

$$\Sigma x^2 = 73,446.22$$

Uma INORNATA TEMPS (BY MONTH) APRIL

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
36.4	1324.96	36.0	1296.00								
37.0	1369.00	39.0	1521.00								
35.8	1281.64	37.0	1369.00								
36.0	1296.00	37.0	1369.00								
36.6	1339.56	37.6	1413.76								
40.0	1600.00	35.8	1281.64								
39.6	1568.16	40.4	1632.16								
38.4	1474.56	38.2	1459.24								
36.8	1354.24	37.0	1369.00								
31.8	1011.24	39.0	1521.00								
34.7	1204.09	38.0	1444.00								
36.6	1339.56	39.0	1521.00								
37.5	1406.25	36.8	1354.24								
37.6	1413.76	40.0	1600.00								
38.5	1482.25	38.0	1444.00								
35.2	1239.04	38.6	1489.96								
38.8	1505.44	37.4	1398.76								
37.2	1383.84	38.0	1444.00								
34.0	1156.00	36.0	1296.00								
37.8	1428.84	38.6	1489.96								
37.6	1413.76	$\Sigma x = 1868.1$									
37.2	1383.84	$N = 50$									
37.4	1398.76	$\Sigma x^2 = 67429.24$									
36.6	1339.56	$\bar{x} = 37.36$									
39.2	1536.64	$\bar{x}^2 = 1395.76$									
39.6	1568.16	$S^2 = 2.89$									
38.8	1505.44	$S = 1.057$									
36.8	1354.24	$= 2.41$									
34.6	1197.16	$\text{Range} = 34.6 - 40.4$									
36.6	1339.56	$2 SE = 1.5 = 37.5 - 36.4$									

$\Sigma x = 1110.7$
 $N = 30$

Uma INORNATA TEMPS (BY MONTH)

MAY

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
38.6	1489.96	40.6	1648.36	35.0	1225.00						
39.4	1552.36	42.0	1764.00	$\Sigma X = 2285.9$							
38.2	1459.24	36.6	1339.56	$N = 60$							
38.4	1474.56	36.2	1310.44	$\Sigma X^2 = 147,836.61$							
38.0	1444.00	39.4	1552.36	$\bar{X} = 38.09$							
38.0	1444.00	32.4	1049.76	$(\bar{X})^2 = 1450.84$							
39.2	1536.64	33.6	1128.96	$S^2 = 4.85$							
40.6	1648.36	35.8	1281.64	$S.E. = \sqrt{4.85}$							
40.0	1600.00	36.0	1296.00	$= 2.205$							
39.0	1521.00	36.4	1324.96								
38.2	1459.24	37.0	1369.00								
40.6	1648.36	37.6	1413.76								
38.4	1474.56	38.8	1505.44								
40.4	1632.16	38.6	1489.96								
39.4	1552.36	43.2	1866.24								
38.1	1451.61	39.0	1521.00								
$\Sigma X = 624.5$		38.4	1474.56								
$N = 16$		38.0	1444.00								
		38.2	1459.24								
		38.0	1444.00								
		39.2	1536.64								
		34.8	1211.04								
		36.2	1310.44								
		37.4	1398.76								
		40.6	1648.36								
		36.4	1324.96								
		39.6	1568.16								
		37.4	1398.76								
		38.4	1474.56								
		38.2	1459.24								
		38.4	1474.56								
		38.0	1444.00								
		38.4	1474.56								
		37.4	1398.76								
		39.0	1521.00								
		39.0	1521.00								
		35.0	1225.00								
		39.0	1521.00								
		34.2	1169.64								
		42.0	1764.00								
		36.0	1296.00								
		40.4	1632.16								
		35.6	1267.36								

JUNE

$$\begin{aligned}\bar{X} &= 38.56 \\ \bar{X}^2 &= 1486.97 \\ S^2 &= 6.28 \\ SE &= \sqrt{6.28} \\ &= 2.50\end{aligned}$$

Uma INORNATA TEMPS (BY MONTH)

JULY

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
<u>38.4</u>	1474.56	<u>38.0</u>	1444.00	<u>34.8</u>	1211.04						
<u>38.0</u>	1444.00	<u>42.0</u>	1764.00	<u>40.8</u>	1664.64						
<u>38.5</u>	1482.25	<u>38.5</u>	1482.25	<u>38.0</u>	1444.00						
<u>39.0</u>	1521.00	<u>39.2</u>	1536.64	<u>39.2</u>	1536.64						
<u>37.2</u>	1383.84	<u>39.4</u>	1552.36	<u>37.6</u>	1413.76						
<u>39.4</u>	1552.36	<u>37.8</u>	1428.84	<u>38.8</u>	1505.44						
<u>40.0</u>	1600.00	<u>36.8</u>	1354.24	<u>39.0</u>	1521.00						
<u>40.1</u>	1608.01	<u>40.2</u>	1616.04	<u>40.8</u>	1664.64						
<u>40.4</u>	1632.16	<u>41.4</u>	1713.96	<u>37.4</u>	1398.76						
<u>39.5</u>	1560.25	<u>41.4</u>	1713.96	<u>39.0</u>	1521.00						
<u>41.7</u>	1738.89	$\Sigma x = 1590.6$		<u>40.4</u>	1632.16						
<u>41.3</u>	1705.69	$N = 40$		<u>38.0</u>	1444.00						
<u>43.0</u>	1849.00			<u>41.0</u>	1681.00						
<u>41.9</u>	1755.61	<u>40.2</u>	1616.04	<u>41.6</u>	1730.56						
<u>41.9</u>	1755.61	<u>33.4</u>	1115.56	<u>40.0</u>	1600.00						
<u>41.8</u>	1747.24	<u>31.4</u>	985.96	<u>39.4</u>	1552.36						
<u>41.9</u>	1755.61	<u>35.6</u>	1267.36	<u>40.4</u>	1632.16						
<u>42.8</u>	1831.84	<u>37.0</u>	1369.00	<u>37.4</u>	1398.76						
<u>37.2</u>	1383.84	<u>36.6</u>	1339.56	<u>36.8</u>	1354.24						
<u>38.4</u>	1474.56	<u>35.0</u>	1225.00	<u>40.8</u>	1664.64						
<u>32.6</u>	1062.76	<u>37.6</u>	1413.76	$\Sigma x = 3000.7$							
<u>36.2</u>	1310.44	<u>40.0</u>	1600.00	$N = 77$							
<u>37.8</u>	1428.84	<u>37.0</u>	1369.00	$\Sigma x^2 = 117,360.45$							
<u>40.1</u>	1608.01	<u>36.4</u>	1324.96	$\bar{x} = 38.98$							
<u>40.5</u>	1640.25	<u>38.0</u>	1444.00	$\bar{x}^2 = 1518.64$							
<u>43.0</u>	1849.00	<u>36.0</u>	1296.00	$\Sigma = 5.55$							
<u>39.5</u>	1560.25	<u>38.7</u>	1497.69	$\Sigma = 1.00$							
<u>43.5</u>	1892.25	<u>39.3</u>	1544.49	$= 2.55$							
<u>40.5</u>	1640.25	<u>39.1</u>	1528.81	$\text{Range} = 39.7 - 32.6$							
<u>39.8</u>	1584.04	<u>37.6</u>	1413.76	$2 \text{ SE} = .5 = 38.5 - 37.5$							

AUGUST

$$\begin{aligned} S^2 &= 11.74 \\ \overline{X} &= 33.25 \\ \overline{X^2} &= 1463.06 \\ S.E. &= 7.70 \\ S.E. &= \sqrt{.117} \\ &= .344 \\ R_{adj} &= 30.7 - 24.7 \\ &= 6.0 \end{aligned}$$

Uma INORNATA TEMPS
(BY MONTH)
SEPTEMBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
34.0	1156.00										
40.2	1616.04										
37.0	1369.00										
41.4	1713.96										
40.8	1664.64										
43.4	1883.56										
41.4	1713.96										
41.6	1730.56										
44.0	1936.00										
46.6	1730.56										
38.8	1505.44										
38.0	1444.00										
40.2	1616.04										
42.8	1831.84										
38.0	1444.00										
37.4	1398.76										
41.1	1689.21										
35.7	1253.16										
39.0	1521.00										
39.6	1568.16										

$\Sigma x = 795.7$

$N = 20$

$\Sigma x^2 = 31,785.89$

$\bar{x} = 39.78$

$\Sigma (x - \bar{x})^2 = 1582.44$

$s^2 = 6.85$

$s.e. = \sqrt{.342}$

$= .585$

RANGE = 34.0 - 46.6 = 12.6

Uma INORMATA TEMPS
(BY MONTH)

OCTOBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
37.8	1428.84										
38.5	1482.25										
40.2	1616.04										
36.0	1296.00										
32.6	1062.76										
38.0	1444.00										
39.0	1521.00										
37.0	1369.00										
37.2	1383.84										
35.0	1225.00										
36.4	1324.96										
36.6	1339.56										
35.4	1253.16										
35.6	1267.36										
37.2	1383.84										
37.6	1413.76										

$$\Sigma x = 590.1$$

$$N = 16$$

$$\Sigma x^2 = 21,811.37$$

$$\bar{x} = 36.88$$

$$\bar{x}^2 = 1360.13$$

$$s^2 = 3.29$$

$$s.e. = \sqrt{2.06}$$

$$= .454$$

$$\text{Range } 32.6 - 40.2$$

$$25.9 - 1.9 = 24.0 - 36.0$$

Uma WORNATA TEMPS
(BY MONTH)
NOVEMBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
36.2	1310.44										

$n = 1$
 $\sum x^2 = 1310.44$
 $\sum x = 36.2$
 $\bar{x} = 36.2$
 $(\bar{x})^2 = 1310.44$

36.8	1354.24
36.6	1338.36
37.4	1398.76
38.0	1444.00
37.8	1428.84
36.2	1310.44
37.6	1413.76
36.6	1338.36
40.4	1632.16
38.0	1444.00
35.2	1239.04
32.0	1024.00

Total
1959-1963
 $\sum x = 15812.9$
 $N = 416$
 $\bar{x} = 38.0$

$\sum x^2 = 4853$
 $n = 13$
 $\bar{x} = 37.4$
 $\sum x^2 = 18177.40$
 $(\bar{x})^2 = 1398.76$
 $SP = 1.57$
 $SE = 0.52$
 $r = 0.05$
 $RAVOC = 3.52 - 4.04$
 $2.55 - 4 = 12.8 - 2.0$

Uma INORNATA TEMPS (BY SEX)



<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
38.4	1474.56	40.2	1616.04	41.5	1722.25	35.2	1239.04	40.2	1616.04	36.0	1296.00
39.0	1521.00	36.2	1310.44	38.4	1474.56	35.8	1281.64	41.4	1713.96	39.0	1521.00
39.5	1560.25	38.8	1505.44	38.4	1474.56	33.2	1102.24	39.4	1552.36	37.0	1369.00
36.5	1332.25	37.7	1421.29	38.0	1444.00	37.8	1428.84	39.6	1568.16	37.0	1369.00
43.0	1849.00	38.3	1466.89	38.0	1444.00	37.6	1413.76	38.7	1497.69	37.6	1413.76
41.8	1747.24	36.9	1361.61	39.0	1521.00	37.2	1383.84	37.4	1398.76	35.8	1281.64
41.9	1755.61	36.8	1354.24	38.2	1459.24	36.6	1339.56	35.4	1253.16	40.4	1632.16
33.0	1089.00	37.5	1406.25	38.4	1474.56	39.2	1536.64	39.0	1521.00	38.2	1459.24
33.2	1102.24	36.9	1361.61	40.4	1632.16	39.6	1568.16	39.6	1568.16	37.0	1369.00
37.2	1383.84	37.5	1406.25	38.1	1451.61	36.8	1354.24	31.0	961.00	38.0	1444.00
42.2	1780.84	36.4	1324.96	38.2	1459.24	35.0	1225.00	36.8	1354.24	39.0	1521.00
34.4	1183.36	37.0	1369.00	38.4	1474.56	36.6	1339.56	36.4	1324.96	38.6	1489.96
40.4	1632.16	35.8	1281.64	40.2	1616.04	42.5	1806.25	38.2	1459.24	37.4	1398.76
36.7	1346.89	36.0	1296.00	38.2	1459.24	38.0	1444.00	38.4	1474.56	38.0	1444.00
35.2	1239.04	39.6	1568.16	35.8	1281.64	35.8	1281.64	32.8	1075.84	36.0	1296.00
36.2	1310.44	34.7	1209.09	41.5	1722.25	36.6	1339.56	36.0	1296.00	38.6	1489.96
39.4	1552.36	36.6	1339.56	44.0	1936.00	38.0	1444.00	37.0	1369.00	34.8	1211.04
38.6	1489.96	37.6	1413.76	36.2	1310.44	34.5	1190.25	38.8	1505.44	37.4	1398.76
39.5	1560.25	38.5	1482.25	37.8	1428.84	41.2	1697.44	37.4	1398.76	36.4	1324.96
41.2	1697.44	38.6	1489.96	39.5	1560.25	38.0	1444.00	36.2	1310.44	37.4	1398.76
41.6	1730.56	39.4	1552.36	43.5	1892.25	41.0	1681.00	36.4	1324.96	38.2	1459.24
42.7	1823.29	34.6	1197.16	37.8	1428.84	39.0	1521.00	37.2	1383.84	38.0	1444.00
42.4	1797.76	37.6	1413.76	34.5	1190.25	35.8	1281.64	38.0	1444.00	37.4	1398.76
44.0	1936.00	36.5	1332.25	39.3	1544.49	41.5	1722.25	38.6	1489.96	39.0	1521.00
40.2	1616.04	40.7	1656.49	35.0	1225.00	36.8	1354.24	35.0	1225.00	39.0	1521.00
37.0	1369.00	44.0	1936.00	34.0	1156.00	43.5	1892.25	38.0	1444.00	40.4	1632.16
40.8	1664.64	39.0	1521.00	33.8	1142.44	38.0	1444.00	37.4	1398.76	40.6	1648.36
43.4	1883.56	35.8	1281.64	35.2	1239.04	42.0	1764.00	35.8	1281.64	36.2	1310.44
41.4	1713.96	38.8	1505.44	36.0	1296.00	38.5	1482.25	38.0	1444.00	39.4	1552.36
37.8	1428.84	37.2	1383.84	35.0	1225.00	39.2	1536.64	36.0	1296.00	32.4	1049.76

Uma inornata Temps.

(BY SEX)

07

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
33.6	1128.96	37.0	1369.00
35.8	1281.64	36.6	1339.56
36.0	1296.00	37.0	1369.00
37.0	1369.00	36.4	1324.96
38.8	1505.44	38.7	1497.69
39.0	1521.00	39.3	1544.49
38.0	1444.00	34.8	1211.04
39.2	1536.64	40.8	1664.64
40.6	1648.36	39.2	1536.64
39.6	1568.16	37.6	1413.76
38.4	1474.56	37.4	1398.76
39.0	1521.00	39.0	1521.00
35.0	1225.00	40.4	1632.16
34.2	1169.64	38.0	1444.00
35.6	1267.36	40.0	1600.00
36.0	1296.00	39.4	1552.36
40.0	1600.00	37.4	1398.76
36.0	1296.00	40.8	1664.64
38.2	1459.24	36.8	
36.6	1339.56	39.4	
40.0	1600.00	32.8	
37.6	1413.76	36.6	
36.6	1339.56	38.0	
39.0	1521.00		
37.0	1369.00		
38.2	1459.24		
37.0	1369.00		
33.4	1115.56		
40.2	1616.04		
31.4	985.96		
35.6	1267.36		

$$\Sigma X = 8685.3$$

$$N = 229$$

$$\bar{X} = 37.92$$

$$\Sigma X^2 = 329,017.16$$

$$(\bar{X})^2 = 1437.92$$

$$S^2 = 5.148$$

$$S.E. = \sqrt{1.026}$$

$$= .161$$

Uma INORNATA TEMPS (BY SEX)



x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
38.0	1444.00	36.0	1296.00	41.8	1747.24	32.0	1024.00	40.4	1632.16	36.4	1324.96
38.5	1482.25	43.0	1849.00	38.2	1459.24	33.6	1128.96	39.2	1536.64	37.6	1413.76
37.2	1383.84	35.4	1253.16	39.2	1536.64	37.4	1398.76	40.0	1600.00	38.6	1489.96
39.4	1552.36	25.8	665.64	40.6	1648.36	38.8	1505.44	40.3	1624.09	43.2	1866.24
40.0	1600.00	38.0	1444.00	40.0	1600.00	41.5	1722.25	39.8	1584.04	38.4	1474.56
40.1	1608.01	33.2	1102.24	40.6	1648.36	41.2	1697.44	39.2	1536.64	38.2	1459.24
40.4	1632.16	37.5	1406.25	39.4	1552.36	41.6	1730.56	38.4	1474.56	36.2	1310.44
41.7	1738.89	36.6	1339.56	38.1	1451.61	38.8	1505.44	38.2	1459.24	38.4	1474.56
41.3	1705.69	40.0	1600.00	40.4	1632.16	38.0	1444.00	38.0	1444.00	38.4	1474.56
41.9	1755.61	38.4	1474.56	41.0	1681.00	40.2	1616.04	41.1	1689.21	36.0	1296.00
41.9	1755.61	36.8	1354.24	32.6	1062.76	42.8	1831.84	37.6	1413.76	35.0	1225.00
42.8	1831.84	36.8	1354.24	40.1	1608.01	37.2	1383.84	37.6	1413.76	34.2	1169.64
35.3	1246.09	32.5	1056.25	40.5	1640.25	36.4	1324.96	38.6	1489.96	36.2	1310.44
35.6	1267.36	35.2	1239.04	43.0	1849.00	35.4	1253.16	36.2	1310.44	34.2	1169.64
38.6	1489.96	37.2	1383.84	36.8	1354.24	35.6	1267.36	37.2	1383.84	37.6	1413.76
38.6	1489.96	36.6	1339.56	38.2	1459.24	37.2	1383.84	40.0	1600.00	36.5	1332.25
38.8	1505.44	35.8	1281.64	39.0	1521.00	39.4	1552.36	38.2	1459.24	37.0	1369.00
32.4	1049.76	34.0	1156.00	38.0	1444.00	38.4	1474.56	36.6	1339.56	37.2	1383.84
38.4	1474.56	38.2	1459.24	38.6	1489.96	34.6	1197.16	37.0	1369.00	37.4	1398.76
30.7	942.49	36.6	1339.56	38.6	1489.96	35.0	1225.00	37.0	1369.00	40.2	1616.04
35.0	1225.00	40.6	1648.36	36.4	1324.96	38.8	1505.44	35.0	1225.00	37.4	1398.76
32.5	1056.25	37.2	1383.84	33.8	1142.44	36.0	1296.00	37.4	1398.76	38.0	1444.00
38.6	1489.96	37.7	1421.29	37.2	1383.84	43.0	1849.00	39.0	1521.00	38.0	1444.00
42.3	1789.29	40.4	1632.16	36.2	1310.44	41.2	1697.44	36.8	1354.24	35.0	1225.00
42.2	1780.84	32.6	1062.76	37.8	1428.84	40.5	1640.25	40.0	1600.00	37.6	1413.76
38.9	1513.21	38.0	1444.00	41.4	1713.96	39.8	1584.04	38.0	1444.00	40.0	1600.00
34.0	1156.00	39.0	1521.00	38.2	1459.24	39.4	1552.36	38.0	1444.00	38.0	1444.00
41.4	1713.96	36.4	1324.96	39.6	1568.16	37.8	1428.84	42.0	1764.00	36.0	1296.00
41.6	1730.56	39.5	1560.25	37.0	1369.00	36.8	1354.24	42.0	1764.00	39.1	1528.81
38.5	1482.25	40.5	1640.25	29.5	870.25	41.4	1713.96	36.6	1339.56	37.6	1413.76

Uma inornata Temps.

(By Sex)

♀

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
38.0	1444.00		
38.8	1505.44		
39.0	1521.00		
40.8	1664.64		
41.0	1681.00		
41.6	1730.56		
40.4	1632.16		
36.8	1354.24		

36.6

38.0

36.2

37.6

40.4

35.2

37.0

$$\Sigma X = 7164.1$$

$$N = 188$$

$$\bar{X} = 38.10$$

$$\Sigma X^2 = 274,515.63$$

$$\bar{X}^2 = 1451.61$$

$$\Sigma^2 = 7.56$$

$$\Sigma E = \overline{11.040}$$

$$= .00$$

Uma INORNATA TEMPS
(BY AGE)
ADULT

x	x ²	x	x ²	x	x ²	x	x ²	x	x ²	x	x ²
38.0	1444.00	34.0	1156.00	35.2	1239.04	38.1	1451.61	39.3	1544.49	42.8	1831.84
37.2	1383.84	37.0	1369.00	38.6	1489.96	38.2	1459.24	39.6	1568.16	37.2	1383.84
39.4	1552.36	41.4	1713.96	39.4	1552.36	40.2	1616.04	37.0	1369.00	35.0	1225.00
40.0	1600.00	48.4	1883.56	37.2	1383.84	38.2	1459.24	35.0	1225.00	36.4	1324.96
40.1	1608.01	41.4	1713.96	34.0	1156.00	40.4	1632.16	34.0	1156.00	36.6	1339.56
40.4	1632.16	41.6	1730.56	38.2	1459.24	41.0	1681.00	28.5	810.25	35.4	1253.16
41.7	1738.89	38.5	1482.25	36.6	1339.56	35.8	1281.64	33.8	1142.44	35.6	1267.36
41.3	1705.69	40.2	1616.04	40.6	1648.36	41.5	1722.25	32.0	1024.00	37.2	1383.84
43.0	1849.00	37.7	1310.44	37.2	1383.84	44.0	1936.00	35.2	1239.04	39.4	1552.36
41.9	1755.61	38.3	1466.89	40.7	1656.49	32.6	1062.76	36.8	1296.00	42.5	1806.25
41.9	1755.61	43.0	1849.00	37.7	1421.29	36.2	1310.44	35.0	1225.00	38.4	1474.56
41.8	1747.24	35.4	1253.16	40.4	1632.16	37.8	1428.84	35.2	1239.04	38.0	1444.00
41.9	1755.61	25.8	665.64	39.5	1560.25	40.1	1608.01	35.8	1281.64	35.8	1281.64
42.8	1831.84	36.8	1354.24	40.5	1640.25	40.5	1640.25	33.6	1128.96	34.6	1197.16
35.3	1246.09	36.9	1361.61	41.5	1722.25	43.0	1849.00	33.2	1102.24	36.6	1339.56
33.2	1102.24	38.0	1444.00	41.8	1747.24	43.5	1892.25	37.8	1428.84	35.0	1225.00
38.6	1489.96	33.2	1102.24	38.2	1459.24	37.8	1428.84	37.6	1413.76	38.0	1444.00
38.6	1489.96	37.5	1406.25	38.4	1474.56	34.5	1190.25	37.2	1383.84	34.5	1190.25
42.2	1780.84	37.5	1406.25	38.0	1444.00	36.8	1354.24	37.4	1398.76	38.8	1505.44
38.8	1505.44	37.0	1369.00	38.0	1444.00	38.2	1459.24	36.6	1339.56	36.0	1296.00
30.7	942.49	35.8	1281.64	39.2	1536.64	39.0	1521.00	39.2	1536.64	41.2	1697.44
35.0	1225.00	36.6	1339.56	40.6	1648.36	38.00	1444.00	39.6	1568.16	38.0	1444.00
36.2	1310.44	40.0	1600.00	40.0	1600.00	38.6	1489.96	38.8	1505.44	43.0	1849.00
37.5	1406.25	37.5	1406.25	39.0	1521.00	38.6	1489.96	36.8	1354.24	41.0	1681.00
38.6	1489.96	38.4	1474.56	38.2	1459.24	33.8	1142.44	41.5	1722.25	39.0	1521.00
42.3	1789.29	31.8	1011.24	40.6	1648.36	37.2	1383.84	41.2	1697.44	35.8	1281.64
41.6	1730.56	34.7	1204.09	38.4	1474.56	36.2	1310.44	41.6	1730.56	41.5	1722.25
38.9	1513.21	36.6	1339.56	40.4	1632.16	37.8	1428.84	38.8	1505.44	41.2	1697.44
42.7	1823.29	37.6	1413.76	39.4	1552.36	41.4	1713.96	38.0	1444.00	36.8	1354.24
44.0	1936.00	38.5	1482.25	38.1	1451.61	38.2	1459.24	40.2	1616.04	43.5	1892.25



Uma WORNATA TEMPS
(BY AGE)

ADULT

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
40.5	1640.25	36.4	1324.96	42.0	1764.00	40.0	1600.00	41.0	1681.00		
39.8	1584.04	38.2	1459.24	36.6	1339.56	37.6	1413.76	41.6	1730.56		
38.0	1444.00	38.0	1444.00	36.2	1310.44	36.6	1339.56	40.0	1600.00		
42.0	1764.00	38.6	1489.96	39.4	1552.36	39.0	1521.00	39.4	1552.36		
38.5	1482.25	38.0	1444.00	32.4	1049.76	37.0	1369.00	40.4	1632.16		
39.2	1536.64	38.0	1444.00	33.6	1128.96	37.0	1369.00	36.8	1354.24		
39.4	1552.36	36.0	1296.00	35.8	1281.64	33.4	1115.56	40.8	1664.64		
37.8	1428.84	37.4	1398.76	36.0	1296.00	40.2	1616.04				
36.8	1354.24	36.0	1296.00	36.4	1324.96	31.4	985.96				
40.2	1616.04	39.0	1521.00	37.0	1369.00	35.6	1267.36				
41.4	1713.96	37.0	1369.00	37.6	1413.76	37.0	1369.00				
41.4	1713.96	37.6	1413.76	38.6	1489.96	36.6	1339.56				
40.4	1632.16	35.8	1281.64	38.2	1459.24	35.0	1225.00				
39.2	1536.64	40.4	1632.16	39.2	1536.64	37.6	1413.76				
40.0	1600.00	37.0	1369.00	36.2	1310.44	40.0	1600.00				
40.3	1624.09	39.0	1521.00	38.4	1474.56	36.4	1324.96				
39.4	1552.36	38.0	1444.00	38.4	1474.56	38.0	1444.00				
39.8	1584.04	36.8	1354.24	38.4	1474.56	36.0	1296.00				
39.2	1536.64	38.0	1444.00	35.0	1225.00	38.7	1497.69				
39.6	1568.16	38.6	1489.96	36.0	1296.00	39.3	1544.49				
38.7	1497.69	34.8	1211.04	35.6	1267.36	37.6	1413.76				
38.0	1444.00	37.4	1398.76	35.0	1225.00	34.8	1211.04				
37.4	1398.76	37.4	1398.76	36.5	1332.25	39.2	1536.64				
41.1	1689.21	38.2	1459.24	37.0	1369.00	38.8	1505.44				
35.4	1253.16	38.0	1444.00	37.2	1383.84	39.0	1521.00				
39.0	1521.00	39.0	1521.00	37.4	1398.76	40.8	1664.64				
39.6	1568.16	39.0	1521.00	40.2	1616.04	37.4	1398.76				
38.4	1474.56	42.0	1764.00	37.4	1398.76	39.0	1521.00				
32.8	1075.84	40.4	1632.16	38.0	1444.00	40.4	1632.16				
37.2	1383.84	40.6	1648.36	38.2	1459.24	38.0	1444.00				

$$\Sigma X = 11714.2$$

$$N = 307$$

$$\bar{X} = 38.15$$

$$\Sigma X^2 = 448841.75$$

$$(\bar{X})^2 = 1455.42$$

$$S^2 = 6.68$$

$$S = \sqrt{6.68}$$

$$= 2.58$$

Uma WORNATA TEMPS
(BY AGE)
IMMATURE

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
38.4	1474.56	36.8	1354.24	38.8	1505.44	39.0	1521.00				
38.5	1482.25	39.6	1568.16	37.4	1398.76	34.2	1169.64				
39.0	1521.00	36.6	1339.56	36.2	1310.44	34.2	1169.64				
39.5	1560.25	34.6	1197.16	40.0	1600.00	36.0	1296.00				
36.5	1332.25	35.8	1281.64	37.2	1383.84	40.0	1600.00				
33.0	1089.00	37.6	1413.76	36.6	1339.56	36.2	1310.44				
37.2	1383.84	36.5	1332.25	37.0	1369.00	34.2	1169.64				
35.6	1267.36	44.0	1936.00	35.0	1225.00	37.6	1413.76				
34.4	1183.36	32.6	1062.76	37.4	1398.76	36.0	1296.00				
32.4	1049.76	38.0	1444.00	35.8	1281.64	38.0	1444.00				
40.4	1632.16	39.0	1521.00	37.0	1369.00	36.6	1339.56				
38.4	1474.56	39.0	1521.00	35.0	1225.00	38.2	1459.24				
36.7	1346.89	35.8	1281.64	37.0	1369.00	37.0	1369.00				
35.2	1239.04	36.4	1324.96	38.2	1459.24	39.1	1528.81				
39.4	1552.36	38.8	1505.44	39.0	1521.00	40.8	1664.64				
39.5	1560.25	37.2	1383.84	40.0	1600.00	38.0	1444.00				
38.6	1489.96	38.4	1474.56	37.4	1398.76	37.6	1413.76				
42.2	1780.84	38.4	1474.56	38.0	1444.00	37.4	1398.76				
41.2	1697.44	39.5	1560.25	36.0	1296.00	37.6	1413.76				
42.4	1797.76	36.4	1324.96	38.6	1489.96	38.6	1489.96				
40.2	1616.04	38.4	1474.56	38.0	1444.00	36.5	1332.25				
40.8	1664.64	38.2	1459.24	36.4	1324.96	36.4	1324.96				
37.8	1428.84	31.0	961.00	37.4	1398.76	37.4	1398.76				
36.0	1296.00	36.8	1354.24	38.8	1505.44	38.0	1444.00				
36.2	1310.44	37.6	1413.76	43.2	1866.24	37.8	1428.84				
38.8	1505.44	36.4	1324.96	39.0	1521.00	37.6	1413.76				
36.9	1361.61	38.2	1459.24	38.4	1474.56	38.0	1444.00				
37.5	1406.25	36.2	1310.44	38.0	1444.00	37.8	1428.84				
36.4	1324.96	36.0	1296.00	40.6	1648.36						
36.0	1296.00	37.0	1369.00	39.6	1568.16						

$$\Sigma X = 4135.2$$

$$N = 110$$

$$\bar{X} = 37.59$$

$$\Sigma X^2 = 155,770.74$$

$$(\bar{X})^2 = 1412.00$$

$$S^2 = 4.29$$

$$S.E. = \sqrt{0.408}$$

$$= 0.639$$

Unit - Intermediate Algebra

(by date)

Topic

36.2 120.99

36.6 134.96

41.4 163.16

32.0 117.00

TIME Uma inornata ARE ACTIVE, BY MONTH

(N=)

TIME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
0500												
0530								1				
0600												
0630												
0700			1	1	 	 	 	 				
0730					 	 	 	 	 			
0800				 	 	 	 	 	 			
0830				 	 	 	 	 	 			
0900		1	 	 	 	 	 	 	 			
0930				 	 	 	 	 		1		
1000	1	 	 	 	 	 	 	 				
1030		 		 	 		 			 	 	
1100	 	 	 	 	 		 		1	 	 	
1130	 	 	 	 	 	○	○			 		
1200		 	 	 	 	○		 				
1230	 		 		○			 				
1300	1		 	○				 				
1330	 		 	 	○			 				
1400		 	 	 	○			 				
1430	 	 	 	 	 			 				
1500	1	 	 	 	 							
1530		 	 	 	 							
1600	1	 	 	 	 							
1630		 		 	 							
1700		1		1								
1730												
1800												
1830												
1900												
1930												

* (|||) = in shade (deep) at Palm Springs Panorama.

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Uma
notata

Uma
notata

AM

Clima notata Temps. (°C)

(April 13, 1965)

code

0831-0930 = 0900

<u>0900</u>		<u>1000</u>		<u>1100</u>		<u>1200</u>	
X	X ²	X	X ²	X	X ²	X	X ²
34.8	1211.04	36.2	1310.44	33.0	1089.00	40.0	1600.00
34.0	1156.00	31.2	973.44	34.0	1156.00	41.0	1681.00
31.2	973.44	33.2	1102.24	37.0	1369.00	39.0	1521.00
		34.2	1169.64	33.6	1128.96	38.4	1474.56
		35.0	1225.00	41.4	1713.96	36.8	1354.24
		32.0	1024.00	37.4	1398.76		
		38.4	1474.56	34.0	1156.00		
		40.0	1600.00	37.5	1406.25		
		35.8	1281.64				
		31.0	961.00				
		34.2	1169.64				
		39.5	1560.25				
		36.2	1310.44				
		34.8	1211.04				
		34.6	1197.16				
		40.4	1632.16				

N = 3

16

8

5

$\Sigma X = 100.0$

566.7

287.9

195.2

$\Sigma X^2 = 3340.76$

2000.45

1041.73

701.00

$\bar{X} = 33.3$

35.4

36.0

37.0

Range = 31.2 -

31.0 -

33.0 -

36.8 -

$\bar{X} = 34.8$

40.4

41.4

41.0

$\Sigma X^2 = 1108.64$

1553.16

1693.96

1521.00

$\Sigma X = 100.0$

100.0

100.0

100.0

$\Sigma X^2 = 1108.64$

100.0

100.0

100.0

AM = 11.49

AM = 11.49

$\Sigma X = 1149.8$

$\Sigma X^2 = 40000.00$

N = 32

$\bar{X} = 35.9$

Range = 31.0 - 41.4

PM

Uma notata Temps. (°C)

(April 13, 1965)

<u>1300</u>		<u>1400</u>		<u>1500</u>		<u>1600</u>		<u>1700</u>	
X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
38.0	1444.00	40.6	1648.36	38.6	1489.96	33.5	1142.44	28.8	829.44
37.0	1369.00	35.4	1253.16	34.6	1197.16	37.0	1369.00	28.2	795.24
37.5	1406.25	39.5	1560.25	36.4	1324.96	36.2	1310.44	31.0	961.00
38.8	1505.44	36.0	1296.00	36.6	1339.56	34.6	1197.16	31.0	961.00
				38.2	1459.24	33.6	1128.96	28.2	795.24
				37.4	1398.76	33.6	1128.96	29.2	852.64
				35.0	1225.00	33.7	1135.69	34.0	1156.00
				34.5	1190.25	35.2	1239.04	30.0	900.00
				36.2	1310.44	36.0	1296.00	30.0	900.00
				33.8	1142.44	33.8	1142.44		
						32.4	1049.76		
						32.0	1024.00		
						31.2	973.44		

N =	4	4	10	13	9
ΣX =	151.3	151.5	361.0	443.1	270.4
ΣX ² =	1183.50	1183.50	1302.10	1528.81	829.44
\bar{X} =	37.8	37.9	36.1	34.1	30.0
Range =	37.0 - 38.8	35.4 - 40.6	33.8 - 38.6	31.2 - 37.0	28.2 - 34.0
s ² =	1.11	4.01	1.17	1.17	1.17
s =	1.05	2.00	1.08	1.08	1.08

PM

$$(\bar{X})^2 = 1183.50$$

$$s^2 = 1.11$$

$$s = 1.05$$

$$\Sigma X = 1377.3$$

$$\Sigma X^2 = 1528.81$$

$$N = 40$$

$$\bar{X} = 34.4$$

$$\text{Range} = 28.2 - 40.6$$

Entire Day

$$2527.1$$

$$72$$

$$35.1$$

$$28.2 - 41.4$$

Lima notata Temps.

(April 14, 1965)

<u>0800</u>		<u>0900</u>		<u>1000</u>		<u>1100</u>	
X	X ²	X	X ²	X	X ²	X	X ²
32.2	1036.84	35.0	1225.00	34.8	1211.04	41.0	1681.00
35.6	1267.36	31.3	979.69	34.6	1197.16	34.0	1156.00
36.0	1296.00	30.0	900.00	36.5	1332.25	39.0	1521.00
		31.4	985.96	37.2	1383.84	40.8	1664.64
		30.6	936.36	29.4	864.36	37.1	1376.41
		33.6	1128.96	35.4	1253.16	38.0	1444.00
		39.0	1521.00	37.2	1383.84	35.7	1274.49
		33.6	1128.96	32.4	1049.76	34.0	1156.00
		31.2	973.44	39.3	1544.49	35.1	1232.01
		36.2	1310.44	36.0	1296.00	38.2	1457.24
		35.6	1267.36	39.5	1560.25	33.8	1142.44
		31.8	1011.24	38.0	1444.00	36.4	1324.96
		37.0	1369.00	36.9	1361.61	35.4	1253.16
		33.5	1122.25	38.8	1505.44		
				38.3	1466.89		
				42.0	1764.00		
				37.6	1413.76		
				34.4	1183.36		

N = 3	14	18	13	48
$\Sigma X = 103.8$	469.8	658.3	481.5	1713.4
$\Sigma X^2 = 3508.10$	1587.40	2421.44	1711.45	6111.10
$\bar{X} = 34.6$	33.6	36.6	37.0	35.7
Range = 32.2 - 36.0	30.0 - 39.0	29.4 - 42.0	33.8 - 41.0	29.4 - 42.0

$\frac{103.8}{3} = 34.6$	$\frac{469.8}{14} = 33.6$	$\frac{658.3}{18} = 36.6$	$\frac{481.5}{13} = 37.0$	$\frac{1713.4}{48} = 35.7$
$\frac{3508.10}{3} = 1169.37$	$\frac{1587.40}{14} = 113.39$	$\frac{2421.44}{18} = 134.52$	$\frac{1711.45}{13} = 131.65$	$\frac{6111.10}{48} = 127.31$
$\frac{1169.37}{34.6} = 33.80$	$\frac{113.39}{33.6} = 3.37$	$\frac{134.52}{36.6} = 3.67$	$\frac{131.65}{37.0} = 3.56$	$\frac{127.31}{35.7} = 3.57$

Uma notata Temps. (1958-1962)
(0800 to 1700 — April thru August)

34.4 37.6 39.6 43.4 $N = 93$
 43.0 37.0 39.8 41.4 $\Sigma X = 3681.5$
 41.5 38.0 37.1 38.6 $\bar{X} = 39.5$
 42.8 32.6 41.0
 44.7 40.5 38.1
 38.2 41.8 36.4
 40.6 40.6 34.1
 45.3 41.6 39.0
 42.8 40.6 42.8
 39.0 43.6 42.4
 43.5 44.2 42.6
 37.2 36.4 41.1
 36.4 31.8 41.0
 36.2 38.4 39.9
 40.5 34.1 41.2
 42.0 37.4 41.2
 39.1 38.0 42.4
 44.4 31.9 41.5
 40.5 39.2 38.6
 42.2 39.2 39.0
 40.4 37.8 41.2
 32.6 39.2 41.9
 37.2 35.2 39.0
 36.5 38.2 40.0
 43.0 36.4 44.4
 39.8 43.8 42.8
 39.7 38.6 40.0
 40.2 37.5 39.4
 36.8 38.5 43.4
 36.6 37.6 42.8

<u>Temp(°C)</u>	<u>No.</u>	<u>%</u>
32	2	2
33	2	2
34	3	3
35	1	1
36	6	6
37	8	8
38	10	10
39	12	12
40	12	12
41	12	12
42	7	7
43	11	11
44	5	5
45	2	2

Lima notata Temp.

(April)

(underlined - no chase)

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
34.6	1169.64	37.4	1398.76	33.6	1128.96	33.6	1128.96	38.0	1444.00
32.0	1024.00	34.0	1156.00	33.6	1128.96	31.2	973.44	35.7	1274.49
29.6	876.16	37.5	1406.25	33.7	1135.69	36.2	1310.44	34.0	1156.00
30.5	930.25	40.0	1600.00	35.2	1239.04	35.6	1267.36	38.1	1451.61
29.8	888.04	41.0	1681.00	36.0	1296.00	31.8	1011.24	38.2	1459.24
31.5	992.25	39.0	1521.00	33.8	1142.44	37.0	1369.00	33.8	1142.44
34.8	1211.04	38.4	1474.56	32.4	1049.76	33.5	1122.25	36.4	1324.96
34.0	1156.00	36.8	1354.24	32.0	1024.00	34.8	1211.04	35.4	1253.16
31.2	973.44	38.0	1444.00	31.2	973.44	34.6	1197.16		
36.2	1310.44	37.0	1369.00	28.8	829.44	36.5	1332.25		
31.2	973.44	37.5	1406.25	28.2	795.24	37.2	1383.84		
33.2	1102.24	38.8	1505.44	31.0	961.00	29.4	864.36		
34.2	1169.64	40.6	1648.36	31.0	961.00	35.4	1253.16		
35.0	1225.00	35.4	1253.16	28.2	795.24	37.2	1383.84		
32.0	1024.00	39.5	1560.25	29.2	852.64	32.4	1049.76		
38.4	1474.56	36.0	1296.00	34.0	1156.00	39.3	1544.49		
40.0	1600.00	38.6	1489.96	30.0	900.00	36.0	1296.00		
35.8	1281.64	37.6	1409.76	30.0	900.00	39.5	1560.25		
31.0	961.00	36.4	1324.96	23.3	542.89	38.0	1444.00		
34.2	1169.64	36.6	1339.56	32.2	1036.84	36.9	1361.61		
39.5	1560.25	38.2	1459.24	35.6	1267.36	38.8	1505.44		
36.2	1310.44	37.4	1398.76	36.0	1296.00	38.3	1466.89		
34.8	1211.04	35.0	1225.00	25.0	625.00	42.0	1764.00		
34.6	1197.16	34.5	1190.25	35.0	1225.00	37.6	1413.76		
40.4	1632.16	36.1	1303.21	31.3	979.69	34.4	1183.36		
33.0	1089.00	33.8	1142.44	30.0	900.00	41.0	1681.00		
34.0	1156.00	33.8	1142.44	31.4	985.96	34.0	1156.00		
37.0	1369.00	37.0	1369.00	30.6	936.36	39.0	1521.00		
33.6	1128.96	36.2	1310.44	33.6	1128.96	40.8	1664.64		
41.4	1713.96	34.6	1197.16	39.0	1521.00	37.1	1376.41		

$N = 125$

$\Sigma x = 4217$

$\Sigma x^2 = 150076.77$

$\bar{x} = 33.74$

$(\bar{x})^2 = 1138.59$

$Pop = 25.15 - 44.00$

Σx

$\Sigma x^2 = 150076.77$

$\bar{x} = 33.74$

$(33.74 - 33.74)$

Uma notata Temp.

(By Month)

(underlined = no chase)

Jan		Feb		Mar				Apr			
X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
31.7	1004.89	25.2	635.04	29.4	864.36	20.6	424.36	40.4	1632.16	40.2	1616.04
34.2	1169.64	23.1	533.61	36.8	1354.24	$\Sigma X = 1017.5$ $N = 29$		32.6	1062.76	39.0	1521.00
27.5	756.25	24.6	605.16	32.2	1036.84			37.2	1383.84	42.0	1764.00
31.6	998.56	24.2	585.64	30.1	906.01	$\Sigma X^2 = 35,838.29$ $\bar{X} = 35.08$ $\bar{X}^2 = 1230.40$ $S^2 = 5.29$ $S.E. = 1.18$ $= 0.431$		36.5	1332.25	42.6	1814.76
31.8	1011.24	26.9	723.61	34.2	1169.64			43.0	1849.00	39.6	1568.16
31.8	1011.24	28.3	800.89	37.2	1383.84	$S^2 = 5.29$ $S.E. = 1.18$ $= 0.431$		39.8	1584.04	39.6	1568.16
$\Sigma X = 188.6$		19.0	361.00	28.2	795.24			39.7	1576.09	39.4	1552.36
$N = 6$		32.3	1043.29	27.3	745.29	$= 0.431$		40.2	1616.04	36.4	1324.96
$\Sigma X^2 = 5,951.82$		28.1	789.61	32.1	1030.41			36.8	1354.24	40.0	1600.00
$\bar{X} = 31.43$		31.1	967.21	34.5	1190.25	$20.6 -$ 43.6		36.6	1339.56	39.2	1536.64
$(\bar{X})^2 = 927.84$		34.2	1169.64	30.0	900.00			37.6	1413.76	36.2	1310.44
$S^2 = 4.96$		23.6	556.96	32.4	1049.76	43.6		37.0	1369.00	39.0	1521.00
$S.E. = 1.18$		32.7	1069.29	33.6	1128.96			38.0	1444.00	38.6	1489.96
$= 0.909$		30.4	924.16	40.1	1608.01	43.6		32.6	1062.76	$\Sigma X = 1624.8$	
$2 S.E. = 1.8$		29.9	894.01	39.4	1552.36			40.5	1640.25	$N = 42$	
$3 S.E. = 2.75$		30.2	912.04	38.0	1444.00	43.6		41.8	1747.24		
342		22.6	510.76	35.2	1239.04			40.6	1648.36	40.0	1600.00
		23.7	561.69	38.9	1513.21	43.6		41.6	1730.56	40.8	1664.64
		35.0	1225.00	39.7	1576.09			40.6	1648.36	37.0	1369.00
		25.0		25.0	625.00	43.6		43.6	1900.96	36.6	1339.56
		35.0		35.0	1225.00			44.2	1953.64	35.4	1253.16
		$\Sigma X = 525.1$		40.6	1648.36	43.6		36.4	1324.96	$N = 47$	
		$N = 19$		39.6	1568.16			31.8	1011.24	$\Sigma X = 1814.6$	
		$\Sigma X^2 = 14,868.61$		37.2	1383.84	43.6		38.4	1474.56	$\Sigma X^2 = 70,409.04$	
		$\bar{X} = 27.63$		41.6	1730.56			34.1	1162.81	$\bar{X} = 38.00$	
		$(\bar{X})^2 = 763.41$		43.6	1900.96	43.6		37.4	1398.76	$\bar{X}^2 = 1444.00$	
		$S^2 = 20.20$		41.5	1722.25			38.0	1444.00	$S^2 = 1.18$	
		$S.E. = 1.06$		33.5	1122.25	43.6		39.0	1521.00	$S.E. = 1.18$	
		$= 1.03$		$\Sigma X = 996.9$				37.0	1369.00	$= 0.420$	
		$N = 28$		$N = 28$		43.6		$\Sigma X = 1113.0$		$N = 29$	
								$N = 29$			

Uma notata Temp.

(By Month)

May

X	X ²	X	X ²	X	X ²
35.8	1281.64	38.6	1489.96		
38.8	1505.44	$\Sigma X = 1164.3$			
42.8	1831.84	$N = 31$			
37.3	1391.29	37.0	1369.00		
31.9	1017.61	38.0	1444.00		
39.2	1536.64	33.6	1128.96		
39.2	1536.64	25.2	635.04		
37.8	1428.84	27.2	739.84		
39.2	1536.64	35.0	1225.00		
35.2	1239.04	39.6	1568.16		
38.2	1459.24	37.6	1413.76		
36.4	1324.96	37.6	1413.76		
43.8	1918.44	37.0	1369.00		
38.6	1489.96	37.2	1383.84		
37.5	1406.25	36.8	1354.24		
37.8	1428.84	37.0	1369.00		
35.2	1239.04	34.4	1183.36		
34.0	1156.00	32.4	1049.76		
35.4	1253.16	26.8	718.24		
32.7	1069.29	33.6	1128.96		
36.0	1296.00	30.6	936.36		
36.5	1332.25	33.0	1089.00		
36.0	1296.00	$\Sigma X = 1813.9$			
36.0	1296.00	$N = 50$			
38.5	1482.25	$\Sigma X^2 = 65441.51$			
37.6	1413.76	$\bar{X} = 36.27$			
39.6	1568.16	$(\bar{X})^2 = 1315.51$			
39.8	1584.04	$S^2 = 13.59$			
39.9	1592.01	$S.E. = \sqrt{.272}$			
39.0	1521.00	$= .522$			

June

X	X ²	X	X ²	X	X ²
35.4	1253.16	36.6	1339.56	43.4	1883.56
34.8	1211.04	39.0	1521.00	40.2	1616.04
42.2	1780.84	38.8	1505.44	40.8	1664.64
40.2	1616.04	37.2	1383.84	42.3	1789.29
44.6	1989.16	40.3	1624.09	40.4	1632.16
38.1	1451.61	38.8	1505.44	40.6	1648.36
36.8	1354.24	37.0	1369.00	$N = 30$	
36.8	1354.24	31.8	1011.24	$\Sigma X = 1192.5$	
34.6	1197.16	$\Sigma X = 1390.3$		$\Sigma X^2 = 57725.5$	
34.6	1197.16	$N = 36$		$\bar{X} = 39.44$	
35.5	1260.25	$\Sigma X^2 = 53192.45$		$(\bar{X})^2 = 1555.51$	
40.5	1640.25			$S^2 = 2.88$	
41.3	1705.69	39.6	1568.16	$S.E. = \sqrt{.121}$	
37.1	1376.41	39.0	1521.00	$= .348$	
41.0	1681.00	38.4	1474.56	$2.58 = .7$	
38.1	1451.61	38.0	1444.00	$2.58 = .7$	
36.4	1324.96	38.0	1444.00		
34.1	1162.81	38.4	1474.56		
39.0	1521.00	38.4	1474.56		
42.8	1831.84	40.3	1624.09		
42.4	1797.76	39.7	1576.09		
42.6	1814.76	40.3	1624.09		
41.1	1689.21	43.4	1883.56		
41.0	1681.00	43.4	1883.56		
40.0	1600.00	38.0	1444.00		
$\Sigma X = 971.0$		41.6	1730.56		
$N = 25$		45.4	2061.16		
40.8	1664.64	41.0	1681.00		
39.0	1521.00	43.4	1883.56		
40.0	1600.00	42.2	1780.84		

936

Uma notatà Temps

(By Month)

July

X	X ²	X	X ²	X	X ²
42.4	1797.76	39.9	1592.01	ΣX = 2376.1	
43.8	1918.44	41.2	1697.44	N = 60	
42.0	1764.00	41.2	1697.44	ΣX ² = 14772.51	
34.4	1183.36	42.4	1797.76	$\bar{X} = 39.60$	
43.6	1900.96	41.0	1681.00	$(\bar{X})^2 = 1568.16$	
39.4	1552.36	41.0	1681.00	$s^2 = 10.76$	
38.8	1505.44	38.8	1505.44	$s.e. = 1.79$	
41.8	1747.24	39.0	1521.00	$r = .423$	
39.4	1552.36	31.0	961.00	$2 s.e. = 3.58$	
36.2	1310.44	44.4	1971.36	Range	
41.1	1689.21	42.8	1831.84	45.6 - 32.1	
40.7	1656.49	42.0	1764.00		
40.4	1632.16	40.2	1616.04		
39.2	1536.64	39.6	1568.16		
38.5	1482.25	45.6	2079.36		
37.9	1436.41	42.4	1797.76		
38.4	1474.56	40.6	1648.36		
38.2	1459.24	36.0	1296.00		
37.0	1369.00	44.8	2007.04		
36.7	1346.89	43.0	1849.00		
36.8	1354.24	41.2	1697.44		
36.0	1296.00	41.0	1681.00		
33.0	1089.00	41.2	1697.44		
34.2	1169.64	42.0	1764.00		
37.6	1413.76	30.0	900.00		
42.9	1840.41	42.8	1831.84		
43.4	1883.56	40.0	1600.00		
35.0	1225.00	41.0	1681.00		
35.9	1288.81	38.4	1474.56		
37.5	1406.25	39.4	1552.36		

Aug

X	X ²	X	X ²	X	X ²
41.0	1681.00	36.4	1324.96	38.8	1505.44
43.3	1874.89	36.2	1310.44	34.0	1156.00
42.4	1797.76	40.5	1640.25	39.4	1552.36
36.5	1332.25	42.0	1764.00	35.0	1225.00
40.0	1600.00	39.1	1528.81	43.4	1883.56
36.5	1332.25	44.4	1971.36	42.6	1814.76
30.5	930.25	40.5	1640.25	41.2	1697.44
40.2	1616.04	40.2	1616.04	41.2	1697.44
37.4	1398.76	36.2	1310.44	43.2	1866.24
44.2	1953.64	42.2	1780.84	43.6	1900.96
34.4	1183.36	41.5	1722.25	38.0	1444.00
43.0	1849.00	38.8	1505.44	38.6	1489.96
41.5	1722.25	38.6	1489.96	40.6	1648.36
36.8	1354.24	39.0	1521.00	43.4	1883.56
34.6	1197.16	39.8	1584.04	41.0	1681.00
29.8	888.04	34.6	1197.16	ΣX = 2271.8	
42.8	1831.84	41.2	1697.44	N = 75	
44.7	1998.09	43.0	1849.00	38.8	1505.44
35.6	1267.36	41.9	1755.61	N = 76	
36.8	1354.24	34.0	1156.00	ΣX = 3010.6	
38.6	1489.96	39.2	1536.64	ΣX ² = 120072.42	
38.2	1459.24	36.0	1296.00	$\bar{X} = 39.61$	
40.6	1648.36	42.8	1831.84	$\bar{X}^2 = 1568.95$	
36.8	1354.24	43.4	1883.56	$s^2 = 11.16$	
45.3	2052.09	42.8	1831.84	$s.e. = 1.147$	
42.8	1831.84	43.4	1883.56	$r = .303$	
39.0	1521.00	41.4	1713.96	$2 s.e. = 2.294$	
35.7	1274.49	41.2	1697.44	Range	
43.5	1892.25	39.8	1584.04	$45.6 - 32.1$	
37.2	1383.84	38.0	1444.00		

Uma notata Temp

(By Month)

Sept

X	X ²	X	X ²	X	X ²
37.6	1413.76	38.9	1512.01	38.0	1444.00
40.9	1672.81	39.6	1568.16	37.0	1369.00
41.3	1705.69	<u>41.6</u>	1730.56	37.4	1398.76
43.7	1909.69	41.0	1681.00	37.4	1398.76
44.8	2007.04	42.0	1764.00	41.6	1730.56
41.5	1722.25	36.6	1339.56	$\Sigma X = 2538.9$	
43.0	1849.00	36.5	1332.25	$N = 65$	
43.4	1883.56	38.0	1444.00	$\Sigma X^2 = 9941.99$	
42.3	1789.29	36.8	1354.24	$\bar{X} = 39.06$	
41.6	1730.56	36.0	1296.00	$(\bar{X})^2 = 1525.68$	
40.6	1648.36	36.6	1339.56	$S^2 = 7.37$	
38.4	1474.56	36.0	1296.00	$SE = 1.113$	
39.6	1568.16	<u>29.0</u>	841.00	$= .336$	
37.9	1436.41	39.8	1584.04		
<u>37.4</u>	1398.76	42.0	1764.00		
33.0	1089.00	40.8	1664.64		
34.0	1156.00	40.8	1664.64		
35.8	1281.64	37.4	1398.76		
40.5	1640.25	40.4	1632.16		
37.8	1428.84	41.0	1681.00		
36.1	1303.21	40.0	1600.00		
37.5	1406.25	37.8	1428.84		
37.7	1421.29	42.0	1764.00		
37.7	1421.29	43.0	1849.00		
39.5	1560.25	41.0	1681.00		
38.6	1489.96	38.0	1444.00		
39.2	1536.64	38.0	1444.00		
38.6	1489.96	38.4	1474.56		
39.6	1568.16	36.8	1354.24		
39.7	1576.09	41.4	1713.96		

Oct

X	X ²	X	X ²	X	X ²
28.8	829.44	41.0	1681.00	42.4	1797.76
41.0	1681.00	39.3	1544.49	40.0	1600.00
41.2	1697.44	39.0	1521.00	40.0	1600.00
43.2	1866.24	40.0	1600.00	40.2	1616.04
39.2	1536.64	45.4	2061.16	39.4	1552.36
39.0	1521.00	41.6	1730.56	37.4	1398.76
39.2	1536.64	42.6	1814.76	41.6	1730.56
40.6	1648.36	39.0	1521.00	30.0	900.00
41.6	1730.56	40.9	1672.81	37.6	1413.76
39.4	1552.36	40.0	1600.00	$\Sigma X = 2658.5$	
39.0	1521.00	39.2	1536.64	$N = 68$	
44.0	1936.00	24.8	615.04	$\Sigma X^2 = 104702.45$	
37.0	1369.00	36.4	1324.96	$\bar{X} = 39.09$	
40.6	1648.36	37.2	1383.84	$(\bar{X})^2 = 1528.02$	
43.0	1849.00	35.6	1267.36	$S^2 = 11.9$	
39.2	1536.64	37.8	1428.84	$SE = 1.175$	
39.5	1560.25	42.4	1797.76	$= .418$	
40.2	1616.04	41.0	1681.00	$SE = 1.3$	
39.3	1544.49	35.7	1274.49		
38.2	1459.24	35.5	1260.25		
41.6	1730.56	40.6	1648.36		
35.6	1267.36	35.4	1253.16		
34.3	1176.49	36.2	1310.44		
39.6	1568.16	40.3	1624.09		
41.0	1681.00	36.4	1324.96		
38.4	1474.56	35.8	1281.64		
42.2	1780.84	39.0	1521.00		
40.4	1632.16	39.0	1521.00		
37.0	1369.00	42.8	1831.84		
41.3	1705.69	43.0	1849.00		

Uma notata Temp

(By Month)

Nov

λ x^2

32.7	1069.29
31.8	1011.24
34.5	1190.25
31.4	985.96
35.0	1225.00
36.9	1361.61
36.5	1332.25
34.2	1169.64
28.2	795.24
39.1	1528.81
37.2	1383.84
33.1	1095.61

$$\Sigma X = 410.6$$

$$N = 12$$

$$\Sigma X^2 = 14,148.74$$

$$\bar{X} = 34.21$$

$$(\bar{X})^2 = 1170.32$$

$$S^2 = 9.54$$

$$S.E. = \sqrt{1.795}$$

$$= 1.34$$

$$2.S.E. = 2.68$$

$$28.2 - 39.1$$

Total

1958-1963

$$\Sigma X = 17516.1$$

$$N = 462$$

$$\bar{X} = 37.9$$

$$N = 492$$

$$\Sigma X = 18720.9$$

$$\bar{X} = 38.05$$

$$(\bar{X})^2 = 1447.81$$

$$\Sigma X^2 = 720,600.25$$

$$S^2 = 16.27$$

$$S.E. = \sqrt{1.034}$$

$$= 1.02$$

4/65

12/11/65



Uma notata Temp

(By Sex)

07

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
31.6	998.56	39.1	1528.81	39.6	1568.16	29.9	894.01	38.2	1459.24	41.2	1697.44
23.1	533.61	39.2	1536.64	39.7	1576.09	23.7	561.69	36.4	1324.96	42.4	1797.76
29.4	864.36	38.5	1482.25	39.6	1568.16	35.0	1225.00	43.8	1918.44	41.0	1681.00
30.1	906.01	37.0	1369.00	41.6	1730.56	37.2	1383.84	38.6	1489.96	41.5	1722.25
41.0	1681.00	36.8	1354.24	41.0	1681.00	28.2	795.24	37.8	1428.84	38.6	1489.96
43.3	1874.89	36.0	1296.00	42.0	1764.00	32.1	1030.41	34.0	1156.00	39.0	1521.00
42.4	1797.76	37.6	1413.76	34.3	1176.49	34.5	1190.25	35.4	1253.16	39.8	1584.04
36.5	1332.25	34.4	1183.36	41.0	1681.00	32.8	1075.84	43.0	1849.00	32.7	1069.29
40.0	1600.00	43.0	1849.00	38.4	1474.56	38.9	1513.21	36.0	1296.00	41.9	1755.61
36.5	1339.56	34.6	1197.16	42.2	1780.84	44.4	1971.36	36.0	1296.00	36.5	1332.25
35.8	1281.64	29.8	888.04	40.4	1632.16	40.2	1616.04	36.0	1296.00	36.8	1354.24
38.8	1505.44	36.8	1354.24	41.0	1681.00	36.2	1310.44	38.5	1482.25	36.0	1296.00
37.3	1391.29	45.3	2052.09	39.3	1544.49	36.5	1332.25	37.6	1413.76	36.6	1339.56
35.4	1253.16	42.8	1831.84	39.0	1521.00	39.7	1576.09	39.8	1584.04	36.0	1296.00
40.2	1616.04	39.0	1521.00	45.4	2061.16	40.2	1616.04	39.0	1521.00	24.8	615.04
28.8	829.44	43.5	1892.25	41.6	1730.56	36.8	1354.24	36.8	1354.24	35.7	1274.49
41.0	1681.00	37.2	1383.84	42.6	1814.76	36.6	1339.56	34.6	1197.16	37.2	1383.84
41.2	1697.44	36.4	1324.96	40.9	1672.81	37.0	1369.00	34.6	1197.16	37.8	1428.84
41.6	1730.56	36.2	1310.44	31.8	1011.24	38.0	1444.00	41.0	1681.00	41.0	1681.00
39.4	1552.36	40.5	1640.25	34.5	1190.25	40.6	1648.36	36.4	1324.96	40.6	1648.36
40.6	1648.36	42.0	1764.00	31.4	985.96	40.6	1648.36	34.1	1162.81	35.4	1253.16
43.0	1849.00	40.9	1672.81	35.0	1225.00	43.6	1900.96	39.0	1521.00	36.2	1310.44
39.5	1560.25	43.4	1883.56	36.9	1361.61	44.2	1953.64	42.4	1797.76	40.6	1648.36
34.2	1169.64	40.6	1648.36	39.1	1528.81	36.4	1324.96	42.6	1814.76	41.6	1730.56
44.6	1989.16	38.4	1474.56	37.2	1383.84	34.1	1162.81	41.1	1689.21	43.6	1900.96
42.4	1797.76	37.4	1398.76	28.3	800.89	37.4	1398.76	41.0	1681.00	33.5	1122.25
43.8	1918.44	35.8	1281.64	28.1	789.61	31.9	1017.61	35.0	1225.00	38.6	1489.96
39.4	1552.36	37.7	1421.29	23.6	556.96	39.2	1536.64	35.9	1288.81	38.8	1505.44
38.8	1505.44	39.5	1560.25	32.7	1069.29	39.2	1536.64	37.5	1406.25	31.0	961.00
39.0	1521.00	38.6	1489.96	30.4	924.16	39.2	1536.64	41.2	1697.44	34.0	1156.00

Uma NOTATA TEMPS (BY SEX)



x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
29.0	841.00	39.4	1552.36	32.4	1049.76						
39.0	1521.00	35.0	1225.00	33.0	1089.00						
40.0	1600.00	43.4	1883.56	38.8	1505.44						
40.0	1600.00	42.6	1814.76	38.8	1505.44						
39.4	1552.36	41.2	1697.44	40.0	1600.00						
41.6	1730.56	41.2	1697.44	33.6	1128.96						
30.0	900.00	48.6	2361.96	36.6	1339.56						
37.0	1369.00	38.0	1444.00								
40.0	1600.00	38.6	1489.96								
44.4	1971.36	43.4	1883.56	38.4	1474.56						
40.2	1616.04	41.0	1681.00	39.7	1576.09						
39.6	1568.16	40.8	1664.64	45.4	2061.16						
42.4	1797.76	40.8	1664.64	43.4	1883.56						
40.6	1648.36	40.0	1600.00	43.4	1883.56						
36.0	1296.00	37.8	1428.84	40.4	1632.16						
43.0	1849.00	42.0	1764.00								
41.2	1697.44	41.6	1730.56								
41.2	1697.44	37.4	1398.76								
42.0	1764.00	37.4	1398.76								
30.0	900.00	37.0	1369.00								
42.8	1831.84	41.4	1713.96								
40.0	1600.00	38.0	1444.00								
46.0	1681.00	41.0	1681.00								
38.4	1474.56	43.0	1849.00								
39.4	1552.36	33.1	1095.61								
39.2	1536.64	39.0	1521.00								
36.0	1296.00	42.0	1764.00								
41.2	1697.44	40.0	1600.00								
38.8	1505.44	38.6	1489.96								
34.0	1156.00	37.6	1413.76								
37.2	1383.84	37.0	1369.00								

$$\Sigma X = 9214.0$$

$$N = 242$$

$$\bar{X} = 38.0$$

$$N = 240$$

$$\Sigma X = 9372.9$$

$$\Sigma X^2 = 361,086.12$$

$$N = 240$$

$$\Sigma X = 9073.6$$

$$\Sigma X^2 = 311,597.20$$

$$\bar{X} = 37.78$$

$$(\bar{X})^2 = 1417.29$$

$$= 16.15$$

$$s^2 = 1.067$$

$$= 1.259$$

$$s = 1.12$$

♀

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
37.6	1413.76	41.8	1747.24	33.0	1089.00	32.4	1049.76	41.3	1705.69	43.0	1849.00		
27.5	756.25	36.2	1310.44	34.0	1156.00	40.1	1608.01	37.1	1376.41	42.4	1797.76		
31.8	1011.24	41.1	1689.21	40.5	1640.25	39.4	1552.36	38.1	1451.61	40.2	1616.04		
31.8	1011.24	40.7	1656.49	37.8	1428.84	38.0	1444.00	42.8	1831.84	37.4	1398.76		
24.6	605.16	40.4	1632.16	36.1	1303.21	35.2	1239.04	42.9	1840.41	39.0	1521.00		
24.2	585.64	37.9	1436.41	37.5	1406.25	39.7	1576.09	43.4	1883.56	42.8	1831.84		
26.9	723.61	38.4	1474.56	37.7	1421.29	42.2	1780.84	39.9	1592.01	42.0	1764.00		
32.2	1036.84	38.2	1459.24	39.2	1536.64	40.4	1632.16	41.0	1681.00	45.6	2079.36		
30.5	930.25	36.7	1346.89	38.6	1489.96	32.6	1062.76	38.8	1505.44	44.8	2007.04		
40.2	1616.04	33.0	1089.00	39.9	1592.01	37.2	1383.84	34.6	1197.16	41.0	1681.00		
37.4	1398.76	34.2	1169.64	35.6	1267.36	39.8	1584.04	39.4	1552.36	42.8	1831.84		
44.2	1953.64	41.5	1722.25	39.6	1568.16	37.6	1413.76	39.4	1552.36	43.4	1883.56		
42.8	1831.84	36.8	1354.24	32.0	1024.00	32.6	1062.76	43.0	1849.00	42.8	1831.84		
34.8	1211.04	42.8	1831.84	41.3	1705.69	40.5	1640.25	36.6	1339.56	43.4	1883.56		
42.2	1780.84	44.7	1998.09	40.0	1600.00	41.8	1747.24	38.0	1444.00	41.4	1713.96		
43.2	1866.24	35.6	1267.36	39.0	1521.00	41.6	1730.56	35.6 1267.36	39.8	1584.04			
39.2	1536.64	38.6	1489.96	40.0	1600.00	31.8	1011.24	42.4	1797.76	38.0	1444.00		
39.0	1521.00	38.2	1459.24	39.2	1536.64	38.4	1474.56	35.7	1274.49	39.4	1552.36		
39.2	1536.64	40.6	1648.36	32.7	1069.29	38.0	1444.00	35.5	1260.25	35.0	1225.00		
40.6	1648.36	36.8	1354.24	36.5	1332.25	37.8	1428.84	40.3	1624.09	42.6	1814.76		
39.0	1521.00	35.7	1274.49	34.2	1169.64	35.2	1239.04	36.4	1324.96	43.2	1866.24		
44.0	1936.00	41.3	1705.69	28.2	795.24	37.5	1406.25	35.8	1281.64	43.6	1900.96		
37.0	1369.00	43.7	1909.69	19.0	361.00	35.2	1239.04	25.0	625.00	39.8	1584.04		
39.2	1536.64	44.8	2007.04	32.3	1043.29	36.5	1332.25	35.0	1225.00	42.0	1764.00		
40.2	1616.04	41.5	1722.25	31.1	967.21	39.6	1568.16	39.6	1568.16	37.4	1398.76		
39.3	1544.49	43.0	1849.00	34.2	1169.64	39.9	1592.01	37.2	1383.84	40.4	1632.16		
38.2	1459.24	42.3	1789.29	30.2	912.04	38.1	1451.61	41.5	1722.25	41.0	1681.00		
41.6	1730.56	41.6	1730.56	22.6	510.76	36.8	1354.24	39.0	1521.00	38.0	1444.00		
42.0	1764.00	39.6	1568.16	27.3	745.29	35.5	1260.25	39.0	1521.00	36.8	1354.24		
43.6	1900.96	37.9	1436.41	30.0	900.00	40.5	1640.25	42.8	1831.84	38.4	1474.56		
38.0	1444.00	37.6 1413.76											

Uma notata Temps

(By Sex)

♀

X	X ²	X	X ²	X	X ²
40.2	1616.04	40.3	1624.09		
42.6	1814.76	37.0	1369.00		
39.6	1568.16	31.8	1011.24		
39.6	1568.16				
39.4	1552.36				
36.4	1324.96				
39.2	1536.64				
36.2	1310.44				
39.0	1521.00				
39.6	1568.16	39.6	1568.16		
37.6	1413.76				
37.0	1369.00				
36.8	1354.24				
34.4	1183.36				
26.8	718.24				
33.6	1128.96				
30.6	936.36				
37.0	1369.00				
38.0	1444.00				
33.6	1128.96				
25.2	635.04				
27.2	739.84				
35.0	1225.00				
40.8	1664.64				
39.0	1521.00				
40.0	1600.00				
36.6	1339.56				
39.0	1521.00				
38.8	1505.44				
37.2	1383.84				

$$\Sigma X = 8084.4$$

$$N = 213$$

$$\bar{X} = 37.9$$

X	X ²	X	X ²
40.0	1600.00		
40.8	1664.64		
37.0	1369.00		
35.4	1253.16		
<hr/>			
N = 218			
$\Sigma X = 8269.4$			
$\Sigma X^2 = 316,987.34$			
39.0	1521.00		
38.4	1474.56		
38.0	1444.00		
38.0	1444.00		
38.4	1474.56		
40.3	1624.09		
40.3	1624.09		
43.4	1883.56		
43.4	1883.56		
38.0	1444.00		
41.6	1730.56		
41.0	1681.00		
42.2	1780.84		
40.2	1616.04		
40.8	1664.64		
42.3	1789.29		
40.6	1648.36		
<hr/>			

$$N = 235$$

$$\Sigma X = 8955.3$$

$$\Sigma X^2 = 343,715.49$$

$$\bar{X} = 38.11$$

$$(\bar{X})^2 = 1451.01$$

$$s^2 = 1.065$$

$$s = 1.032$$

Uma notata Temp-

(B & A)

Adult

♂ = > 80+ mm

♀ = > 70+ "

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
41.0	1681.00	40.5	1640.25	34.5	1190.25	36.4	1324.96	36.4	1324.96	36.4	1324.96
43.3	1874.89	42.0	1764.00	32.4	1049.76	43.8	1918.44	34.1	1162.81	37.2	1383.84
42.4	1797.76	41.3	1705.69	33.6	1128.96	38.6	1489.96	39.0	1521.00	35.6	1267.36
35.8	1281.64	43.7	1909.69	38.9	1513.21	37.5	1406.25	42.8	1831.84	37.8	1428.84
38.8	1505.44	41.5	1722.25	44.4	1971.36	37.8	1428.84	42.4	1797.76	41.0	1681.00
42.2	1780.84	42.3	1789.29	40.5	1640.25	35.2	1239.04	41.1	1689.21	35.7	1274.49
40.2	1616.04	40.6	1648.36	40.2	1616.04	34.0	1156.00	41.0	1681.00	35.5	1260.25
39.2	1536.64	37.9	1436.41	36.2	1310.44	35.4	1253.16	42.9	1840.41	40.6	1648.36
39.5	1560.25	37.4	1398.76	32.6	1062.76	32.7	1069.29	43.4	1883.56	35.4	1253.16
39.3	1544.49	40.5	1640.25	43.0	1849.00	36.0	1296.00	35.9	1288.81	36.2	1310.44
38.2	1459.24	36.1	1303.21	39.7	1576.09	36.5	1332.25	37.5	1406.25	40.3	1624.09
39.1	1528.81	37.7	1421.29	40.2	1616.04	36.0	1296.00	39.9	1592.01	36.4	1324.96
36.2	1310.44	38.6	1489.96	36.6	1339.56	36.0	1296.00	41.2	1697.44	35.8	1281.64
40.7	1656.49	39.6	1568.16	37.6	1413.76	38.5	1482.25	41.2	1697.44	25.0	625.00
40.4	1632.16	41.6	1730.56	40.5	1640.25	37.6	1413.76	42.4	1797.76	35.0	1225.00
37.9	1436.41	42.0	1764.00	40.6	1648.36	39.6	1568.16	41.5	1722.25	40.6	1648.36
38.4	1474.56	39.6	1568.16	41.6	1730.56	39.8	1584.04	38.8	1505.44	39.6	1568.16
36.8	1354.24	41.0	1681.00	40.6	1648.36	39.9	1592.01	38.6	1489.96	41.6	1730.56
36.0	1296.00	40.0	1600.00	43.6	1900.96	39.0	1521.00	34.8	1197.16	33.5	1122.25
37.6	1413.76	32.7	1069.29	44.2	1953.64	38.1	1451.61	41.2	1697.44	38.6	1489.96
41.5	1722.25	28.2	795.24	36.4	1324.96	36.8	1354.24	39.4	1552.36	38.8	1505.44
36.8	1354.24	37.2	1383.84	38.4	1474.56	36.8	1354.24	39.4	1552.36	39.0	1521.00
34.6	1197.16	28.3	800.89	34.1	1162.81	34.6	1197.16	43.0	1849.00	31.0	961.00
29.8	888.04	19.0	361.00	37.4	1398.76	34.6	1197.16	41.9	1755.61	34.0	1156.00
42.8	1831.84	28.1	789.61	31.9	1017.61	35.5	1260.25	36.6	1339.56	29.0	841.00
44.7	1998.09	30.4	924.16	39.2	1536.64	40.5	1640.25	36.5	1332.25	39.0	1521.00
35.6	1267.36	35.0	1225.00	39.2	1536.64	41.3	1705.69	36.8	1354.24	39.0	1521.00
36.8	1354.24	37.2	1383.84	39.2	1536.64	37.1	1376.41	36.0	1296.00	42.8	1831.84
35.7	1274.49	27.3	745.29	35.2	1239.04	41.0	1681.00	36.6	1339.56	43.0	1849.00
43.5	1892.25	32.1	1030.41	38.2	1459.24	38.1	1451.61	24.8	615.04	42.4	1797.76



Uma NOTATA Tempa
(BY AGE)
ADULT

x	x ²	x	x ²	x	x ²	x	x ²	x	x ²	x	x ²
40.0	1600.00	40.0	1600	37.0	1369.00						
40.2	1616.04	41.0	1681.00	30.6	936.36						
39.4	1552.36	38.4	1474.56	33.0	1089.00						
37.4	1398.76	39.4	1552.36	40.8	1664.64						
41.6	1730.56	43.4	1883.56	40.0	1600.00						
30.0	900.00	41.4	1713.96	36.6	1339.56						
39.0	1521.00	41.2	1697.44	39.0	1521.00						
39.0	1521.00	43.2	1866.24	38.8	1505.44						
40.0	1600.00	43.6	1900.96	31.8	1011.24						
44.4	1971.36	38.0	1444.00	38.8	1505.44						
42.8	1831.84	38.6	1489.96								
42.0	1764.00	40.6	1648.36								
40.2	1616.04	43.4	1883.56								
39.6	1568.16	41.0	1681.00	39.6	1568.16						
45.6	2079.36	39.8	1584.04	39.0	1521.00						
42.4	1792.76	42.0	1764.00	38.4	1474.56						
40.6	1648.36	40.8	1664.64	38.0	1444.00						
36.0	1296.00	40.8	1664.64	38.0	1444.00						
44.8	2007.04	37.4	1398.76	38.4	1474.56						
43.0	1849.00	40.4	1632.16	38.4	1474.56						
41.2	1697.44	41.0	1681.00	40.3	1624.09						
41.0	1681.00	40.0	1600.00	39.7	1576.09						
41.2	1697.44	42.6	1814.76	40.3	1624.09						
42.0	1764.00	36.2	1310.44	43.4	1883.56						
30.0	900.00	38.6	1489.96	38.0	1444.00						
42.8	1831.84	25.2	635.04	41.0	1681.00						
39.2	1536.64	27.2	739.84	43.4	1883.56						
36.0	1296.00	39.6	1568.16	40.2	1616.04						
42.8	1831.84	37.0	1369.00	40.8	1664.64						
43.4	1883.56	37.2	1383.84	42.3	1789.29						
42.8	1831.84	36.8	1354.24	40.4	1632.16						

$$\Sigma x = 9597.1$$

$$N = 250$$

$$\bar{x} = 38.3$$

$$N = 252$$

$$\Sigma x = 9667.7$$

$$\Sigma x^2 = 373,804.07$$

$$N = 270$$

$$\Sigma x = 10317.3$$

$$\Sigma x^2 = 402,143.43$$

$$\bar{x} = 38.21$$

$$s^2 = 11.30$$

$$s = 3.36$$

$$s = 3.36$$

$$s = 3.36$$

Uma notata Temp-

(B, Age)

Immature

$\sigma = 51$ to 71 mm

$\phi = 51$ to 61 ..

X	X-	X	X-	X	X-	X	X-	X	X-	X	X-
32.6	1413.76	39.4	1552.36	39.6	1568.16	39.2	1536.64	36.8	1354.24	41.6	1730.56
24.6	605.16	38.8	1505.44	33.0	1089.00	31.8	1011.24	37.0	1369.00	37.4	1398.76
26.9	723.61	41.8	1747.24	35.8	1281.64	34.5	1190.25	38.0	1444.00	37.0	1369.00
29.4	864.36	41.1	1689.21	34.0	1156.00	31.4	985.96	32.6	1062.76	41.4	1713.96
36.8	1354.24	39.0	1521.00	37.8	1428.84	35.0	1225.00	41.8	1747.24	36.8	1354.24
32.2	1036.84	39.2	1536.64	37.5	1406.25	36.9	1360.61	31.8	1011.24	38.4	1474.56
30.1	906.01	38.5	1482.25	37.7	1421.29	36.5	1332.25	38.0	1444.00	38.0	1444.00
36.5	1332.25	38.2	1459.24	39.5	1560.25	34.2	1169.64	37.8	1428.84	38.0	1444.00
40.0	1600.00	37.0	1369.00	38.6	1489.96	39.1	1528.81	42.6	1814.76	41.0	1681.00
30.5	930.25	36.7	1346.89	39.2	1536.64	32.3	1043.29	35.0	1225.00	43.0	1849.00
40.2	1616.04	33.0	1089.00	39.6	1568.16	31.1	967.21	41.0	1681.00	20.6	424.36
37.4	1398.76	34.2	1169.64	39.7	1576.09	34.2	1169.64	41.0	1681.00	40.2	1616.04
44.2	1953.64	34.4	1183.36	39.9	1592.01	23.6	556.96	39.0	1521.00	39.0	1521.00
42.8	1831.84	43.0	1849.00	41.0	1681.00	32.7	1069.29	39.8	1584.04	42.0	1764.00
37.3	1391.29	38.6	1489.96	35.6	1267.36	29.9	894.01	38.0	1444.00	39.6	1568.16
35.4	1253.16	38.2	1459.24	34.3	1176.49	30.2	912.04	36.0	1296.00	39.6	1568.16
34.8	1211.04	40.6	1648.36	38.4	1474.56	22.6	510.76	42.4	1797.76	39.4	1552.36
28.8	829.44	36.8	1354.24	42.2	1780.84	23.7	561.69	37.2	1383.84	36.4	1324.96
43.2	1866.24	45.3	2052.09	40.4	1632.16	28.2	795.24	43.6	1900.96	40.0	1600.00
44.0	1936.00	42.8	1831.84	37.0	1369.00	30.0	900.00	41.5	1722.25	39.2	1536.64
37.0	1369.00	39.0	1521.00	41.3	1705.69	40.1	1608.01	40.0	1600.00	39.0	1521.00
40.6	1648.36	37.2	1383.84	41.0	1681.00	39.4	1552.36	41.2	1697.44	37.0	1369.00
43.0	1849.00	36.4	1324.96	39.3	1544.49	38.0	1444.00	39.8	1584.04	38.0	1444.00
40.2	1616.04	36.2	1310.44	39.0	1521.00	35.2	1239.04	38.0	1444.00	33.6	1128.96
41.6	1730.56	40.9	1672.81	40.0	1600.00	39.7	1576.09	38.8	1505.44	35.0	1225.00
34.2	1169.64	44.8	2007.04	45.4	2061.16	42.2	1780.84	39.4	1552.36	37.6	1413.76
44.6	1989.16	43.0	1849.00	41.6	1730.56	40.4	1632.16	35.0	1225.00	37.6	1413.76
42.4	1797.76	43.4	1883.56	42.6	1814.76	37.2	1383.84	43.4	1883.56	34.4	1183.36
43.8	1918.44	41.6	1730.56	39.0	1521.00	36.5	1332.25	42.6	1814.76	32.4	1049.76
43.6	1900.96	38.4	1474.56	40.9	1672.81	39.8	1584.04	41.2	1697.44	26.8	718.24

Uma notata Temps.
(By Age)
Immature

S-V

♂ = 51 to 79 mm

♀ = 51 to 69 mm

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
33.6	1128.96							40.0	1600.00		
39.0	1521.00							40.8	1664.64		
37.2	1383.84							37.0	1369.00		
40.3	1624.09							36.6	1339.56		
38.8	1505.44							<u>35.4</u>	<u>1253.16</u>		
<u>37.0</u>	<u>1369.00</u>										

$$\Sigma X = 7013.9$$

$$N = 186$$

$$\bar{X} = 37.7$$

$$N = 191$$

$$\Sigma X = 7203.7$$

$$\Sigma X^2 = 275,376.21$$

$$43.4 \ 1883.56$$

$$41.6 \ 1730.56$$

$$45.4 \ 2061.16$$

$$42.2 \ 1780.84$$

$$43.4 \ 1883.56$$

$$40.6 \ 1648.36$$

$$N = 197$$

$$\Sigma X = 7404.3$$

$$\Sigma X^2 = 286,364.25$$

$$\bar{X} = 37.86$$

$$(\bar{X})^2 = 1437.37$$

$$S^2 = 20.36$$

$$S.E. = \sqrt{.103}$$

$$= .321$$

Uma notata Temp-

(By Age)

Juvenile

S-V
0-50 mm.

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
31.7	1004.89										
34.2	1169.64										
27.5	756.25										
31.6	998.56										
31.8	1011.24										
31.8	1011.24										
25.2	635.04										
23.1	533.61										
39.2	1536.64										
24.2	585.64										
38.2	1536.64										
36.5	1332.25										
41.0	1681.00										
41.2	1697.44										
40.6	1648.36										
39.0	1521.00										
41.6	1730.56										
39.4	1552.36										
39.0	1521.00										
34.4	1183.36										
34.0	1156.00										
27.8	1428.84										
42.0	1764.00										
37.4	1398.76										
38.0	1444.00										
33.1	1095.61										
37.6	1413.76										

$$\Sigma X = 914.5$$

$$N = 26$$

$$\bar{X} = 35.1$$

$$\Sigma X^2 = 32,133.93$$

$$(\bar{X})^2 = 1232.01$$

$$S^2 = 36.07$$

$$S.E. = \sqrt{1.39}$$

$$= 1.18$$

Immature + juvenile

$$\Sigma X = ~~7928.7~~ 8118.2$$

$$N = ~~217~~ 217$$

$$\bar{X} = ~~37.3~~ 37.4$$

$$\Sigma X^2 = 308,310.14$$

$$N = 223$$

$$\Sigma X = 8379.8$$

$$\Sigma X^2 = 319,215.18$$

$$\bar{X} = 37.55$$

$$(\bar{X})^2 = 1410.00$$

$$S^2 = 20.93$$

$$S.E. = \sqrt{0.94}$$

$$= 0.97$$

Time Uma notata Are Active, B₂ Month

(N = ~~64~~)

Time	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
0500												
0530												
0600												
0630												
0700												
0730												
0800												
0830												
0900												
0930												
1000												
1030												
1100												
1130												
1200												
1230												
1300												
1330												
1400												
1430												
1500												
1530												
1600												
1630												
1700												
1730												
1800												
1830												
1900												
1930												
2000												
2030												

Uma notata Temperatures

Temp. (°C)	No. of Animals	No Chase
19		
20	Thru 4/65	Thru 4/65
21	1	1
22		
23	2	1
24	3	2
25	5	2
26		
27	5	2
28	6	3
29	6	4
30	16	4
31	15	3
32	20	6
33	13	
34	41	7
35	34	4
36	55	8
37	65	11
38	59	6
39	73	15
40	69	13
41	61	6
42	39	7
43	39	5
44	11	3
45	7	3
46	1	
Total		
$\bar{X} = 38.1^{\circ}\text{C}$		$N = 116$
$S^2 = 16.1$		(No chase)
$N = 646$		

Uma
SCORPAAIA

Uma
SCOPARIA

Uma scoparia Temps, (1959-1962)
(0800 To 1700 - April thru August)

36.2	39.0	40.5	38.8	41.5
38.4	37.6	40.8	38.8	39.4
37.0	41.8	39.4	40.9	34.8
37.5	41.4	38.7	41.5	40.4
39.5	38.5	40.6	38.8	40.2
39.6	38.7	39.2	36.6	36.4
39.2	41.5	37.6	38.6	38.6
36.5	39.2	39.0	40.2	36.6
37.5	38.8	37.0	37.8	36.8
40.8	42.8	38.7	40.6	38.9
43.0	37.5	39.2	42.9	37.8
39.6	40.9	37.8	39.1	36.7
37.6	37.6	40.0	39.4	40.2
38.0	39.8	39.2	(27.6)	39.4
40.2	43.8	39.9	38.0	39.2
35.8	35.6	41.9	38.6	40.5
38.4	36.4	41.0	39.4	37.0
37.0	43.4	38.1	35.0	37.9
40.8	36.4	43.0	38.0	34.8
38.8	38.4	39.9	43.6	39.2
38.0	38.6	38.4	41.2	43.0
32.8	38.3	41.2	42.0	36.2
37.5	38.6	40.4	38.5	40.0
38.5	39.7	41.6	39.9	(28.3)
41.5	38.4	41.2	40.1	(27.0)
39.0	36.6	39.2	42.6	37.4
38.4	41.3	36.8	39.4	37.2
38.4	34.6	39.4	39.8	
35.0	37.9	38.2	39.4	
39.0	39.4	37.1	40.8	

Temp(°C)	No.	%
33	1	0
34	1	0
35	5	3
36	8	5
37	17	11
38	26	18
39	36	25
40	19	13
41	18	12
42	3	2
43	7	4
44	2	1

$$N = 146 (143)$$

$$\Sigma X = 5653.5$$

$$\bar{X} = 38.7$$

Uma SCORARIA TEMPS
(BY MONTH)

FEBRUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
<u>25.8</u>	665.64										
29.2	852.64										
30.2	912.04										
<u>31.6</u>	998.56										
32.5	1056.25										
34.6	1197.16										
34.0	1156.00										
33.0	1089.00										
28.0	784.00										
31.8	1011.24										
28.6	817.96										
<u>35.0</u>	<u>1225.00</u>										

$$\Sigma x = 374.3$$

$$N = 12$$

$$\Sigma x^2 = 11,765.49$$

$$\bar{x} = 31.19$$

$$(\bar{x})^2 = 972.81$$

$$s^2 = 8.34$$

$$s.e. = \sqrt{1.695}$$

$$= 1.302$$

Uma SCORARIA TEMPS
(BY MONTH)
MARCH

[illegible]

Uma SCOPARIA TEMPS
(BY MONTH)

APRIL

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
40.6	1648.36	39.5	1560.25								
36.6	1339.56	39.6	1568.16								
37.5	1406.25	39.2	1536.64								
37.0	1369.00	$\Sigma x = 1274.4$									
28.3	800.89	$N = 34$									
27.0	729.00										
38.6	1489.96	38.6	1489.96								
38.3	1466.89	39.8	1584.04								
38.6	1489.96	39.6	1568.16								
39.7	1576.09	37.2	1383.84								
38.4	1474.56	38.2	1459.24								
36.6	1339.56	39.4	1552.36								
41.3	1705.69	38.0	1444.00								
34.6	1197.16	38.0	1444.00								
37.9	1436.41	35.2	1239.04								
39.4	1552.36	38.0	1444.00								
40.5	1640.25	35.2	1239.04								
40.8	1664.64	$\Sigma x = 1691.6$									
39.4	1552.36	$N = 45$									
38.7	1497.69										
40.6	1648.36										
27.6	761.76	37.8	1428.84								
38.0	1444.00	36.4	1324.96								
38.6	1489.96	37.4	1398.76								
39.4	1552.36	$N = 48$									
35.0	1225.00	$\Sigma x = 1803.2$									
38.0	1444.00	$\Sigma x^2 = 68,167.62$									
36.2	1310.44	$\bar{x} = 37.56$									
38.4	1474.56	$\bar{x}^2 = 1410.75$									
37.0	1369.00	$s^2 = 9.61$									
37.5	1406.25	$s.e. = \frac{9.61}{48} = .447$									

MAY

[illegible]

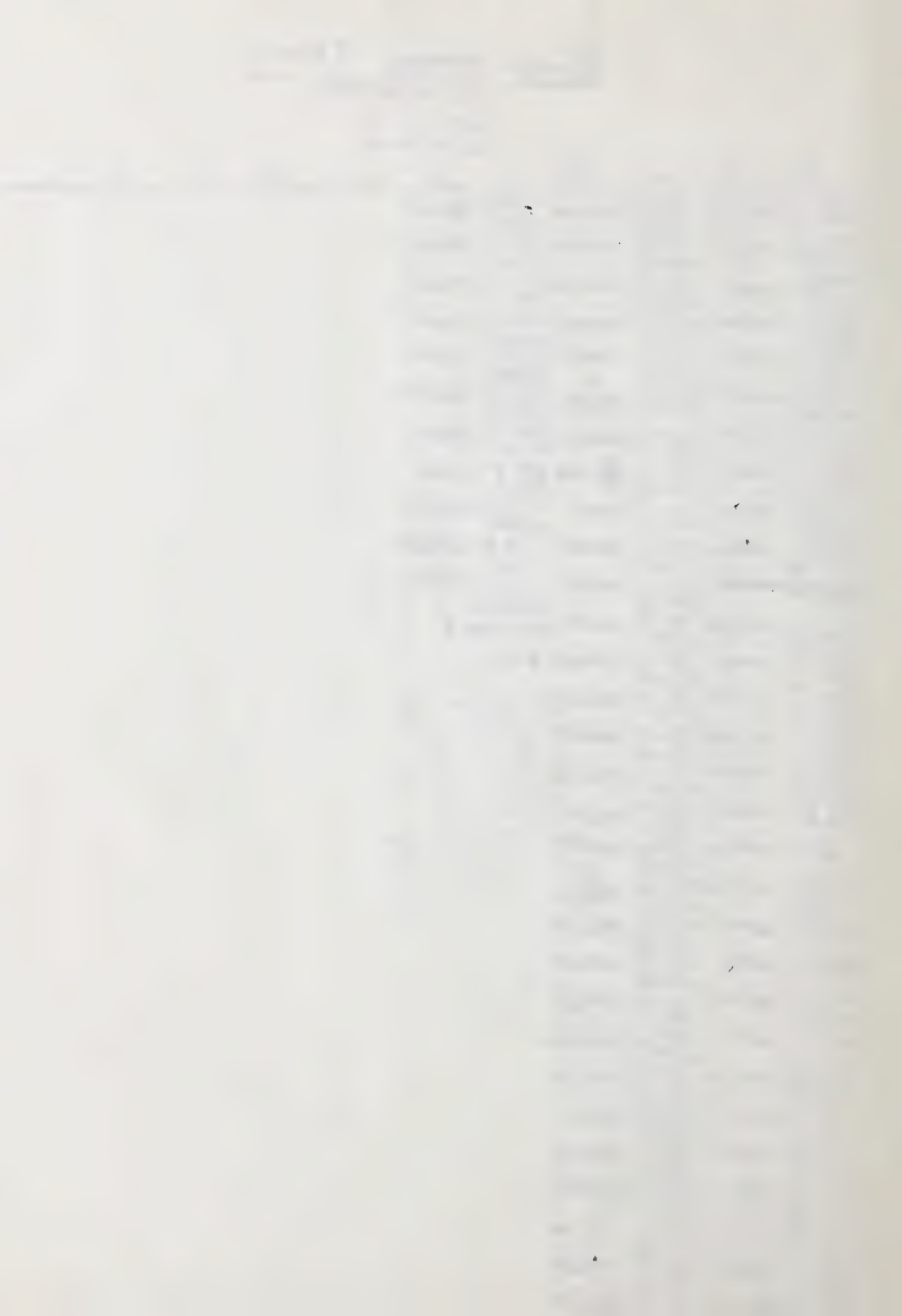
Uma scoparia TEMPS (BY MONTH)

JUNE

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
38.2	1459.24	38.8	1505.44	40.2	1616.04						
39.0	1521.00	38.0	1444.00	38.6	1489.96						
39.8	1584.04	32.8	1075.84	40.0	1600.00						
39.2	1536.64	37.5	1406.25	40.1	1608.01						
39.9	1592.01	38.5	1482.25	40.3	1624.09						
41.9	1755.61	41.5	1722.25	38.0	1444.00						
41.0	1681.00	39.0	1521.00	35.6	1267.36						
34.0	1156.00	$\Sigma x = 1483.5$		38.4	1474.56						
38.1	1451.61	$N = 38$		37.4	1398.76						
43.0	1849.00			34.6	1197.16						
39.9	1592.01	38.4	1474.56	34.4	1183.36						
38.4	1474.56	35.2	1239.04	36.0	1296.00						
41.2	1697.44	37.8	1428.84	37.0	1369.00						
40.4	1632.16	37.4	1398.76	38.0	1444.00						
41.6	1730.56	37.3	1391.29	37.1	1376.41						
41.2	1697.44	37.0	1369.00	38.2	1459.24						
39.2	1536.64	36.7	1346.89	$\Sigma x = 2892.9$							
36.8	1354.24	38.2	1459.24	$N = 75$							
39.4	1552.36	38.0	1444.00	$\Sigma x^2 = 111,908.24$							
36.5	1332.25	37.0	1369.00	$\bar{x} = 38.57$							
37.5	1406.25	35.0	1225.00	$(\bar{x})^2 = 1487.54$							
40.8	1664.64	42.0	1764.00	$\Sigma^2 = 4.52$							
43.0	1849.00	37.6	1413.76	$\Sigma \Sigma = 1.061$							
39.6	1568.16	41.0	1681.00	$= 0.245$							
37.6	1413.76	40.4	1632.16								
38.0	1444.00	39.7	1576.09								
40.2	1616.04	39.4	1552.36								
35.8	1281.64	38.4	1474.56								
38.4	1474.56	40.5	1640.25								
37.0	1369.00	38.0	1444.00								
40.8	1664.64	38.6	1489.96								

Uma SCOPARIA TEMPS
(BY MONTH)
JULY

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
38.6	1489.96	39.4	1552.36	38.5	1482.25						
37.6	1413.76	39.8	1584.04	38.7	1497.69						
39.6	1568.16	39.4	1552.36	41.5	1722.25						
36.4	1324.96	40.8	1664.64	39.2	1536.64						
39.6	1568.16	41.5	1722.25	38.8	1505.44						
38.0	1444.00	40.6	1648.36	42.8	1831.84						
37.6	1413.76	38.8	1505.44	37.5	1406.25						
37.4	1398.76	38.2	1459.24	40.9	1672.81						
37.0	1369.00	37.1	1376.41	37.6	1413.76						
37.4	1398.76	37.3	1391.29	39.8	1584.04						
38.5	1482.25	36.6	1339.56	43.8	1918.44						
36.6	1339.56	37.0	1369.00	$\Sigma x = 2709.8$							
32.7	1069.29	39.2	1536.64	$N = 70$							
34.8	1211.04	39.0	1521.00	$\Sigma x^2 = 105,202.52$							
35.6	1267.36	39.3	1544.49	$\bar{x} = 39.71$							
35.2	1239.04	37.6	1413.76	$(\bar{x})^2 = 1576.8841$							
35.0	1225.00	38.8	1505.44	$S^2 = 4.00$							
36.4	1324.96	38.8	1505.44	$S.E. = 1.000$							
37.6	1413.76	35.4	1253.16	$= .253$							
40.0	1600.00	38.5	1482.25								
40.0	1600.00	40.0	1600.00								
41.2	1697.44	38.4	1474.56								
41.1	1689.21	38.4	1474.56								
39.3	1544.49	35.0	1225.00								
41.2	1697.44	38.0	1444.00								
42.0	1764.00	39.0	1521.00								
38.5	1482.25	39.0	1521.00								
39.9	1592.01	37.6	1413.76								
40.1	1608.01	41.8	1747.24								
42.6	1814.76	41.4	1713.96								



AUGUST

302

2. 3. 4.

Uma SCOPARIA TEMPS
(BY MONTH)

SEPTEMBER

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
38.6	1489.96	40.4	1632.16								
37.2	1383.84	40.4	1632.16								
37.5	1406.25	38.0	1444.00								
37.5	1406.25	39.8	1584.04								
36.0	1296.00	42.0	1764.00								
36.3	1317.69	39.2	1536.64								
34.6	1197.16	37.0	1369.00								
35.1	1232.01	41.4	1713.96								
30.8	948.64	41.2	1697.44								
31.7	1004.89	39.0	1521.00								
31.0	961.00	37.0	1369.00								
31.6	998.56	38.6	1489.96								
32.3	1043.29	38.0	1444.00								
32.6	1062.76	40.0	1600.00								
32.4	1049.76	38.4	1474.56								
27.7	767.29	39.4	1552.36								
31.8	1011.24	37.0	1369.00								
31.8	1011.24	38.0	1444.00								
38.8	1505.44	36.5	1332.25								
<u>ΣX = 645.3</u>		<u>39.2</u>	1536.64								
N = 19		42.0	1764.00								
<u>ΣX² = 22,093.25</u>		<u>36.6</u>	1339.56								

$$\bar{X} = 34.0$$

$$n = 41$$

$$(\bar{X})^2 = 1153.28$$

$$\Sigma X = 1504.4$$

$$s^2 = 10.0$$

$$\Sigma X^2 = 55,713.60$$

$$s = 1.526$$

$$\bar{X} = 30.7$$

$$= 0.725$$

$$(\bar{X})^2 = 1340.49$$

$$s^2 = 12.01$$

$$s.e. = 1.095$$

$$= 1.095$$

OCTOBER

[illegible]

Uma SCOPARIA TEMPS
(BY MONTH)
NOVEMBER

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
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32.6	1062.76										
------	---------	--	--	--	--	--	--	--	--	--	--

26.4	696.96										
------	--------	--	--	--	--	--	--	--	--	--	--

$$\Sigma X = 59.0$$

$$N = 2$$

$$\Sigma X^2 = 1759.72$$

$$\bar{X} = 29.50$$

$$(\bar{X})^2 = 870.25$$

Total

1959-1963

$$\Sigma X = 15451.4$$

$$N = 411$$

$$\bar{X} = 37.5$$

Uma scoparia TEMPS (BY SEX)



<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
32.5	1056.25	41.5	1722.25	34.3	1176.49	39.4	1552.36	39.5	1560.25	36.4	1324.96
34.2	1169.64	36.2	1310.44	37.9	1436.41	40.8	1664.64	39.6	1568.16	38.4	1474.56
34.4	1183.36	37.6	1413.76	39.8	1584.04	38.7	1497.69	37.5	1406.25	36.2	1310.44
36.8	1354.24	35.5	1260.25	42.4	1797.76	40.6	1648.36	38.0	1444.00	29.2	852.64
38.2	1459.24	40.4	1632.16	37.9	1436.41	32.6	1062.76	40.2	1616.04	31.6	936.36
40.2	1616.04	40.2	1616.04	33.6	1128.96	34.2	1169.64	35.8	1281.64	34.6	1197.16
36.8	1354.24	36.4	1324.96	38.8	1505.44	39.0	1521.00	38.4	1474.56	33.0	1089.00
37.2	1383.84	38.6	1489.96	41.3	1705.69	38.7	1497.69	37.0	1369.00	28.0	784.00
34.6	1197.16	38.9	1513.21	37.8	1428.84	40.0	1600.00	40.8	1664.64	28.6	817.96
40.6	1648.36	37.0	1369.00	39.0	1521.00	39.2	1536.64	38.8	1505.44	35.0	1225.00
40.8	1664.64	37.9	1436.41	36.2	1310.44	39.9	1592.01	38.0	1444.00	37.4	1398.76
36.6	1339.56	34.8	1211.04	40.6	1648.36	41.9	1755.61	32.8	1075.84	33.0	1089.00
37.0	1369.00	39.2	1536.64	39.7	1576.09	34.0	1156.00	38.5	1482.25	36.4	1324.96
38.2	1459.24	43.0	1849.00	26.4	696.96	38.1	1451.61	37.5	1406.25	37.2	1383.84
39.0	1521.00	36.2	1310.44	36.7	1346.89	38.4	1474.56	41.5	1722.25	36.0	1296.00
39.8	1584.04	40.0	1600.00	36.0	1296.00	40.4	1632.16	39.0	1521.00	37.6	1413.76
37.6	1413.76	36.0	1296.00	39.9	1592.01	41.6	1730.56	40.0	1600.00	35.0	1225.00
39.6	1568.16	35.1	1232.01	32.8	1075.84	40.6	1648.36	38.4	1474.56	37.4	1398.76
37.4	1398.76	32.3	1043.29	37.4	1398.76	37.1	1376.41	39.0	1521.00	37.0	1369.00
37.0	1369.00	32.6	1062.76	37.8	1428.84	37.6	1413.76	37.6	1413.76	38.4	1474.56
37.4	1398.76	27.7	767.29	30.9	954.81	34.4	1183.36	41.8	1747.24	37.8	1428.84
36.6	1339.56	31.8	1011.24	27.0	729.00	36.2	1310.44	38.5	1482.25	37.0	1369.00
34.8	1211.04	31.8	1011.24	32.4	1051.76	38.6	1489.96	41.5	1722.25	38.0	1444.00
35.6	1267.36	35.1	1232.01	37.2	1383.84	40.6	1648.36	39.2	1536.64	38.0	1444.00
35.0	1225.00	38.7	1497.69	38.3	1466.89	42.9	1840.41	38.8	1505.44	38.0	1444.00
40.0	1600.00	37.9	1436.41	39.7	1576.09	38.8	1505.44	37.5	1406.25	32.6	1062.76
41.2	1697.44	36.8	1354.24	38.4	1474.56	38.6	1489.96	40.9	1672.81	38.0	1444.00
42.0	1764.00	35.2	1239.04	36.6	1339.56	39.4	1552.36	43.8	1918.44	39.8	1584.04
40.1	1608.01	33.5	1122.25	41.3	1705.69	35.0	1225.00	34.6	1197.16	39.6	1568.16
39.4	1552.36	32.4	1049.76	34.6	1197.16	37.0	1369.00	37.6	1413.76	37.2	1383.84
39.8	1584.04	35.6	1267.36	37.9	1436.41	37.5	1406.25	43.4	1883.56	38.0	1444.00

UMA SCOPARIA Temps
(by sex)

♂

X	X ²	X	X ²
39.0	1521.00	34.6	1197.16
38.0	1444.00	34.4	1183.36
39.8	1584.04	38.0	
38.9	1505.44	37.1	1376.41
40.6	1648.36		
39.0	1521.00		
44.2	1953.64		
42.4	1797.76		
37.6	1413.76		
42.2	1780.84	36.4	1324.96
36.6	1339.56	37.4	1398.76
40.0	1600.00		
40.0	1600.00		
33.4	1115.56		
35.8	1281.64		
41.2	1697.44		
38.4	1474.56		
37.8	1428.84		
37.3	1391.29		
37.0	1369.00		
38.2	1459.24		
35.0	1225.00		
42.0	1764.00		
40.4	1632.16		
39.7	1576.09		
40.5	1640.25		
40.2	1616.04		
40.1	1608.01		
38.0	1444.00		
38.6	1489.96		
38.1	1451.61		

$$\Sigma X = 8268.0$$

$$N = 220$$

$$\bar{X} = 37.5$$

$$N = 222$$

$$\Sigma X = 8341.8$$

$$\Sigma X^2 = 315,378.75$$

$$\bar{X} = 37.57$$

$$(\bar{X})^2 = 1411.50$$

$$S^2 = 9.17$$

$$S.E. = \sqrt{.041}$$

$$= .202$$

$$43.2 \quad 1866.24$$

$$42.8 \quad 1831.84$$

$$40.4 \quad 1632.16$$

$$40.4 \quad 1632.16$$

$$38.0 \quad 1444.00$$

$$39.8 \quad 1584.04$$

$$41.2 \quad 1697.44$$

$$38.0 \quad 1444.00$$

$$40.0 \quad 1600.00$$

$$39.4 \quad 1552.36$$

$$39.2 \quad 1536.64$$

$$36.6 \quad 1339.56$$

Uma SCOPARIA TEMPS

(BY SEX)



X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
37.8	1428.84	37.5	1406.25	38.9	1512.01	38.4	1474.56	34.6	1197.16	36.0	1296.00
37.5	1406.25	37.5	1406.25	41.2	1697.44	39.2	1536.64	37.4	1398.76	38.4	1474.56
38.6	1489.96	36.3	1317.69	41.2	1697.44	36.5	1332.25	31.6	998.56	41.2	1697.44
39.6	1568.16	34.6	1197.16	39.2	1536.64	40.8	1664.64	36.0	1296.00	38.8	1505.44
36.4	1324.96	30.8	948.64	36.8	1354.24	43.0	1849.00	37.0	1369.00	34.8	1211.04
38.0	1444.00	31.7	1004.89	39.4	1552.36	39.6	1568.16	36.8	1354.24	33.4	1115.56
37.6	1413.76	31.0	961.00	38.8	1505.44	37.6	1413.76	38.6	1489.96	32.6	1062.76
32.7	1069.29	31.6	998.56	38.2	1459.24	35.4	1253.16	37.0	1369.00	35.0	1225.00
35.2	1239.04	32.4	1049.76	37.3	1391.29	38.5	1482.25	39.2	1536.64	36.8	1354.24
36.4	1324.96	36.4	1324.96	36.6	1339.56	38.4	1474.56	32.0	1024.00	35.1	1232.01
37.6	1413.76	39.3	1544.49	37.0	1369.00	35.0	1225.00	37.4	1398.76	36.2	1310.44
41.0	1681.00	36.0	1296.00	39.2	1536.64	38.0	1444.00	36.6	1339.56	39.4	1552.36
41.1	1689.21	39.8	1584.04	39.0	1521.00	39.0	1521.00	38.4	1474.56	36.9	1361.61
39.3	1544.49	38.0	1444.00	39.3	1544.49	41.4	1713.96	37.6	1413.76	35.2	1239.04
41.2	1697.44	36.5	1332.25	38.8	1505.44	38.7	1497.69	37.8	1428.84	37.4	1398.76
38.5	1482.25	32.6	1062.76	38.8	1505.44	42.8	1831.84	37.8	1428.84	36.7	1346.89
39.9	1592.01	38.0	1444.00	40.9	1672.81	37.6	1413.76	38.6	1489.96	38.0	1444.00
42.6	1814.76	37.4	1398.76	41.5	1722.25	39.8	1584.04	38.2	1459.24	37.0	1369.00
40.8	1664.64	35.0	1225.00	37.6	1413.76	38.2	1459.24	39.4	1552.36	37.6	1413.76
39.4	1552.36	36.1	1303.21	38.8	1505.44	41.2	1697.44	38.0	1444.00	41.0	1681.00
34.8	1211.04	28.3	800.89	36.6	1339.56	34.2	1169.64	38.0	1444.00	39.4	1552.36
36.6	1339.56	38.6	1489.96	40.2	1616.04	35.6	1267.36	35.2	1239.04	38.4	1474.56
36.8	1354.24	38.6	1489.96	37.8	1428.84	36.4	1324.96	35.2	1239.04	38.0	1444.00
37.8	1428.84	40.5	1640.25	39.1	1528.81	33.5	1122.25	39.6	1568.16	38.6	1489.96
36.7	1346.89	39.4	1552.36	39.4	1552.36	36.9	1361.61	41.0	1681.00	38.6	1489.96
40.2	1616.04	37.6	1413.76	27.6	761.76	25.8	665.64	38.0	1444.00	40.0	1600.00
39.4	1552.36	37.0	1369.00	38.0	1444.00	30.2	912.04	38.8	1505.44	40.3	1624.09
39.2	1536.64	39.2	1536.64	38.0	1444.00	32.5	1056.25	41.0	1681.00	37.4	1398.76
40.5	1640.25	37.8	1428.84	37.6	1413.76	34.0	1156.00	36.0	1296.00	36.0	1296.00
38.6	1489.96	41.0	1681.00	38.0	1444.00	31.8	1011.24	43.0	1849.00	39.0	1521.00
37.2	1383.84	43.0	1849.00	36.2	1310.44	38.0	1444.00	43.2	1866.24	38.0	1444.00

UMA ESCOPARIA TEMPS (BY SEX)

x x^2
38.2 1459.24

37.8 1428.84

$$\Sigma x = 7021.9$$

$$N = 187$$

$$\bar{X} = 37.5$$

$$N = 188$$

$$\Sigma x = 7059.7$$

$$\Sigma x^2 = 266,679.37$$

$$\bar{X} = 37.55$$

$$(\bar{X})^2 = 1410.00$$

$$s^2 = 8.55$$

$$S.E. = \sqrt{1.045}$$

$$= .212$$

x x^2 x x^2
38.4 1474.56

37.0 1369.00

38.0 1444.00

36.5 1332.25

42.0 1764.00

$$N = 222$$

$$\Sigma x = 7764.4$$

$$\Sigma x^2 = 277,918.10$$

$$\bar{X} = 37.7$$

$$(\bar{X})^2 = 1421.29$$

$$s^2 = 7.48$$

$$S.E. = \sqrt{1.036}$$

$$= .190$$

38.6 1489.96

39.2 1536.64

40.4 1632.16

40.0 1600.00

39.6 1568.16

40.8 1664.64

42.0 1764.00

39.2 1536.64

37.0 1369.00

41.4 1713.96

39.0 1521.00

37.0 1369.00

38.6 1489.96

Uma SCOPARIA TEMPS
(BY AGE)
ADULT

x	x ²	x	x ²	x	x ²	x	x ²	x	x ²	x	x ²
40.2	1616.04	39.4	1552.36	37.9	1436.41	32.6	1413.76	39.0	1521.00	37.5	1406.25
37.2	1383.84	39.2	1536.64	33.6	1128.96	39.0	1521.00	39.3	1544.49	39.5	1560.25
34.6	1197.16	37.0	1369.00	38.8	1505.44	37.0	1369.00	37.6	1413.76	39.6	1568.16
40.8	1664.64	37.9	1436.41	37.8	1428.84	38.7	1497.69	38.8	1505.44	39.2	1536.64
39.6	1568.16	34.8	1211.04	39.0	1521.00	39.2	1536.64	38.8	1505.44	36.5	1332.25
36.4	1324.96	39.2	1536.64	26.4	696.96	37.8	1428.84	40.9	1672.81	37.5	1406.25
38.0	1444.00	43.0	1849.00	36.0	1296.00	40.0	1600.00	41.5 1722.25	40.8	1664.64	
37.6	1413.76	36.2	1310.44	39.9	1592.01	39.2	1536.64	34.4	1183.36	43.0	1849.00
37.4	1398.76	40.0	1600.00	37.8	1428.84	39.9	1592.01	36.2	1310.44	39.6	1568.16
37.4	1398.76	37.5	1406.25	35.0	1225.00	41.9	1755.61	37.6	1413.76	37.6	1413.76
36.6	1339.56	37.5	1406.25	36.1	1303.21	41.0	1681.00	38.8	1505.44	38.0	1444.00
32.7	1069.29	36.0	1296.00	28.3	800.89	34.0	1156.00	36.6	1339.56	40.2	1616.04
34.8	1211.04	36.3	1317.69	27.0	729.00	38.1	1451.61	38.6	1489.96	35.8	1281.64
35.0	1225.00	35.1	1232.01	37.2	1383.84	43.0	1849.00	40.2	1616.04	38.4	1474.56
40.0	1600.00	30.8	948.64	38.6	1489.96	39.9	1592.01	37.8	1428.84	37.0	1369.00
40.0	1600.00	31.7	1004.89	38.3	1466.89	38.4	1474.56	40.6	1648.36	40.8	1664.64
39.3	1544.49	31.0	961.00	38.6	1489.96	41.2	1697.44	42.9	1840.41	38.8	1505.44
41.2	1697.44	31.6	998.56	39.7	1576.09	40.4	1632.16	39.1	1528.81	38.0	1444.00
38.5	1482.25	32.3	1043.29	38.4	1474.56	41.6	1730.56	39.4	1552.36	32.8	1075.84
39.9	1592.01	32.6	1062.76	36.6	1339.56	41.2	1697.44	38.8	1505.44	38.5	1482.25
42.6	1814.76	32.4	1049.76	41.3	1705.69	39.2	1536.64	27.6	761.76	41.5	1722.25
39.8	1584.04	27.7	767.29	34.6	1197.16	36.8	1354.24	38.0	1444.00	39.0	1521.00
40.8	1664.64	31.8	1011.24	37.9	1436.41	39.4	1552.36	38.6	1489.96	35.4	1253.16
41.5	1722.25	36.4	1324.96	39.4	1552.36	40.6	1648.36	39.4	1552.36	38.5	1482.25
39.4	1552.36	39.3	1544.49	40.5	1640.25	38.8	1505.44	35.0	1225.00	40.0	1600.00
36.6	1339.56	36.0	1296.00	40.8	1664.64	38.2	1459.24	38.0	1444.00	38.4	1474.56
36.8	1354.24	35.2	1239.04	39.4	1552.36	37.1	1376.41	37.6	1413.76	38.4	1474.56
38.9	1513.21	33.5	1122.25	38.7	1497.69	37.3	1391.29	38.0	1444.00	35.0	1225.00
37.8	1428.84	32.4	1049.76	40.6	1648.36	36.6	1339.56	36.2	1310.44	38.0	1444.00
36.7	1346.89	39.8	1584.04	32.6	1062.76	37.0	1369.00	38.4	1474.56	39.0	1521.00
40.2	1616.04	38.0	1444.00	34.2	1169.64	39.2	1536.64	37.0	1369.00	39.0	1521.00

THE HISTORY OF THE
CITY OF BOSTON
FROM 1630 TO 1800

The history of the city of Boston from 1630 to 1800 is a story of growth, struggle, and triumph. It begins with the arrival of the Puritans in 1630, who sought a place where they could practice their religion freely. They found it in Boston, and over the years, the city grew from a small settlement into a major center of commerce and industry. The city's growth was not without its challenges, however. It faced numerous hardships, including wars, famines, and plagues. Yet, through it all, the city persevered, and its people emerged as a strong and resilient community. By 1800, Boston had become one of the most important cities in the United States, a place where the future of the nation was being shaped.

Uma SCOPARIA TEMPS (BY AGE) ADULT

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
37.6	1413.76	35.0	1225.00	35.1	1232.01						
41.8	1747.24	37.8	1428.84	35.2	1239.04						
41.4	1713.96	38.6	1489.96	37.3	1391.29						
38.5	1482.25	37.0	1369.00	36.7	1346.89						
38.7	1497.69	38.0	1444.00	38.2	1459.24						
41.5	1722.25	39.2	1536.64	38.0	1444.00						
39.2	1536.64	38.0	1444.00	37.0	1369.00						
38.8	1505.44	32.0	1024.00	35.0	1225.00						
42.8	1831.84	37.4	1398.76	42.0	1764.00						
37.5	1406.25	38.4	1474.56	37.6	1413.76						
40.9	1672.81	37.6	1413.76	40.4	1632.16						
37.6	1413.76	38.2	1459.24	39.7	1576.09						
39.8	1584.04	38.0	1444.00	38.4	1474.56						
43.8	1918.44	39.6	1568.16	38.0	1444.00						
34.2	1169.64	39.0	1521.00	38.6	1489.96	37.8	1428.84				
37.6	1413.76	38.0	1444.00	38.6	1489.96	36.4	1324.96				
35.6	1267.36	39.8	1584.04	40.0	1600.00	40.4	1632.16				
36.4	1324.96	40.6	1648.36	40.1	1608.01	40.4	1632.16				
43.4	1883.56	39.0	1521.00	40.3	1624.09	38.0	1444.00				
36.4	1324.96	44.2	1953.64	38.0	1444.00	42.0	1764.00				
38.4	1474.56	43.0	1849.00	35.6	1267.36	37.0	1369.00				
25.8	665.64	36.0	1296.00	38.4	1474.56	41.4	1713.96				
30.2	912.04	41.2	1697.44	34.6	1197.16	39.0	1521.00				
32.5	1056.25	42.4	1797.76	34.4	1183.36	37.0	1369.00				
34.6	1197.16	33.4	1115.56	38.0	1444.00	38.6	1489.96				
34.0	1156.00	34.8	—	37.1	1376.41	37.0	1369.00				
33.0	1089.00	33.4	—	38.2	1459.24						
28.0	784.00	32.6	1062.76								
28.6	817.96	35.8	1281.64								
33.0	1089.00	37.6	1413.76								
37.6	1413.76	41.2	1697.44								

$$\Sigma X = 10280.5$$

$$N = 273$$

$$\bar{X} = 37.6$$

$$N = 275$$

$$\Sigma X = 10254.7$$

$$\Sigma X^2 = 392623.19$$

$$\bar{X} = 37.65$$

$$(\bar{X})^2 = 1417.52$$

$$s^2 = 10.2$$

$$s = 3.19$$

$$s = 1.42$$

$$SE = 1.03$$

$$s = 1.07$$

$\Sigma X = 10280.5$
 $\Sigma X^2 = 392623.19$
 $\bar{X} = 37.6$
 $(\bar{X})^2 = 1413.76$
 $s^2 = 10.07$

Uma SCOPARIA TEMPS
(BY AGE)
IMMATURE

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
37.8	1428.84	36.4	1324.96	38.2	1459.24	39.8	1584.04	37.2	1383.84	37.2	1383.84
34.4	1183.36	38.6	1489.96	41.2	1697.44	39.6	1568.16	37.4	1398.76	37.4	1398.76
36.8	1354.24	40.5	1640.25	33.5	1122.25	37.2	1383.84	37.0	1369.00	37.0	1369.00
38.2	1459.24	38.6	1489.96	36.9	1361.61	39.4	1552.36	41.0	1681.00	41.0	1681.00
36.8	1354.24	37.2	1383.84	36.2	1310.44	38.0	1444.00	39.4	1552.36	39.4	1552.36
40.6	1648.36	34.6	1197.16	29.2	852.64	35.2	1239.04	40.5	1640.25	40.5	1640.25
36.6	1339.56	31.8	1011.24	31.6	998.56	38.0	1444.00	40.2	1616.04	40.2	1616.04
37.5	1406.25	35.1	1232.01	31.8	1011.24	35.2	1239.04	37.4	1398.76	37.4	1398.76
37.0	1369.00	38.7	1497.69	35.0	1225.00	38.9	1513.21	36.0	1296.00	36.0	1296.00
38.2	1459.24	37.9	1436.41	37.4	1398.76	41.0	1681.00	39.0	1521.00	39.0	1521.00
39.0	1521.00	36.8	1354.24	38.0	1444.00	38.0	1444.00	32.5	1056.25	32.5	1056.25
39.8	1584.04	35.6	1267.36	36.4	1324.96	38.8	1505.44	34.2	1169.64	34.2	1169.64
38.6	1489.96	34.3	1176.49	37.2	1383.84	41.0	1681.00				
37.6	1413.76	37.9	1436.41	34.6	1197.16	36.0	1296.00				
39.6	1568.16	36.5	1332.25	37.4	1398.76	42.2	1780.84				
37.0	1369.00	39.8	1584.04	31.6	998.56	43.2	1866.24				
35.6	1267.36	42.4	1797.76	36.0	1296.00	38.4	1474.56				
35.2	1239.04	41.3	1705.69	36.0	1296.00	37.6	1413.76				
36.4	1324.96	36.2	1310.44	37.0	1369.00	42.2	1780.84				
37.6	1413.76	40.6	1648.36	37.4	1398.76	38.8	1505.44				
41.2	1697.44	39.7	1576.09	37.0	1369.00	36.6	1339.56	37.4	1398.76		
41.1	1689.21	32.6	1062.76	38.4	1474.56	40.0	1600.00				
42.0	1764.00	36.7	1346.89	36.8	1354.24	40.0	1600.00				
40.1	1608.01	38.0	1444.00	37.0	1369.00	34.8	1211.04				
39.4	1552.36	37.8	1428.84	38.0	1444.00	33.4	1115.56				
34.8	1211.04	37.4	1398.76	32.6	1062.76	35.0	1225.00				
36.2	1310.44	37.4	1398.76	38.0	1444.00	36.8	1354.24				
37.6	1413.76	30.9	954.81	36.6	1339.56	36.2	1310.44				
35.5	1260.25	37.4	1398.76	37.8	1428.84	39.4	1552.36				
40.4	1632.16	37.5	1406.25	37.8	1428.84	36.9	1361.61				
40.2	1616.04	34.6	1197.16	38.6	1489.96	38.4	1474.56				

$\Sigma X = 5089.2$
 $N = 136$
 $\bar{X} = 37.4$

$N = 137$
 $\Sigma X = 5140.6$
 $\Sigma X^2 = 192,044.5$
 $\bar{X} = 37.42$
 $(\bar{X})^2 = 1400.25$
 $SE = \sqrt{\frac{192,044.5}{137} - 1400.25}$
 $= .214$

Uma scoparia Temps
(by age)
Juvenile

x	x ²	x	x ²	x	x ²	x	x ²	x	x ²	x	x ²
39.8	1584.04										
39.2	1536.64										
41.2	1697.44										
38.0	1444.00										
40.0	1600.00										
38.4	1474.56										
39.4	1552.36										
38.0	1444.00										
36.5	1332.25										
39.2	1536.64										
42.0	1764.00										
36.6	1339.56										

$$n = 12$$

$$\sum x = 468.2$$

$$\sum x^2 = 18,305.44$$

$$\bar{x} = 39.0$$

$$(\bar{x})^2 = 1521.00$$

$$s^2 = 4.86$$

$$S.E. = \sqrt{.405}$$

$$= .636$$

TIME Uma SCOPARIA ARE ACTIVE, BY MONTH

[illegible]

Uma spp

Uma spp.

Times *Uma* spp. Are Active (1958-1963)

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
notata	18	29	63	96	91	59	64	109	88	84	24	2
inornata	1	52	132	124	210	63	41	89	37	33	1	0
scoparia	1	22	68	81	79	72	75	87	28	40	2	0
Total	20	103	263	301	380	194	180	285	153	157	27	2

Total $N = 2065$

notata $N = 727$

inornata $N = 783$

scoparia $N = 555$

March - April Activity (1958-1963)

Species	Mar.	Apr.	Total
notata	63	96	159
inornata	132	124	256
scoparia	68	81	149
Total	263	301	564

Proportion of *Uma* spp. Captured at Different Cloucal Temperatures
(Through March 1963)

<u>Temp(°C)</u>	<u><i>incarnata</i></u>		<u><i>notata</i></u>		<u><i>sceparia</i></u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
24	0	0	3	1	0	0
25	0	0	4	1	0	0
26	1	0	0	0	2	0
27	0	0	3	1	1	0
28	0	0	4	1	4	1
29	1	0	3	1	2	0
30	0	0	9	2	1	0
31	2	0	3	1	3	1
32	3	1	11	3	13	4
33	7	2	9	2	10	3
34	9	3	18	4	9	3
35	18	6	17	4	21	7
36	29	10	35	8	25	8
37	45	15	39	9	50	15
38	55	19	36	9	62	19
39	42	15	48	11	51	16
40	29	11	44	11	30	10
41	22	8	50	12	26	8
42	15	5	30	7	5	2
43	10	4	31	7	7	2
44	3	1	11	3	1	0
45	0	0	7	2	0	0
46	0	0	0	0	0	0
N	291		418		323	

$\Sigma N = 1032$

UROSAURUS GRACIOSA



I.R. - 13 8 1/2 x 11



UROSAURUS GRACIOSA

Urosaurus vegetation preference

<i>Eriogonum deserticola</i>	
<i>Ephedra arabidensis sp.</i>	
<i>Larrea divaricata</i>	
<i>Croton californica</i>	
<i>Dalea emoryi</i>	
<i>Helianthus</i>	
<i>Dalea spinesa</i>	
<i>Petalonyx thurberi</i>	
<i>Dicoria canescens</i>	
<i>Atriplex canescens</i>	
<i>Hilaria rigida</i>	
<i>Chilopsis linearis</i>	
<i>Cercidium</i>	
<i>Chrysothamnus sp.</i>	
<i>Paltoxia linearis</i>	
<i>Encelia</i>	

UROSAURUS GRACIOSA TEMPS
(BY MONTH)

FEBRUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
28.9	835.21										
25.7	660.49										
31.8	1011.24										
28.6	817.96										
28.9	835.21										
32.1	1030.41										
34.3	1176.49										

$$\begin{aligned}
 N &= 7 \\
 \sum x &= 210.3 \\
 \sum x^2 &= 6,757.01 \\
 \bar{x} &= 30.04 \\
 (\bar{x})^2 &= 902.4 \\
 s^2 &= 8.27 \\
 S.E. &= \sqrt{1.20} \\
 &= 1.10
 \end{aligned}$$

UROSAURUS GRACIOSA TEMPS

(BY MONTH)

MARCH

x x^2 x x^2 x x^2 x x^2 x x^2 x x^2

<u>35.1</u>	1232.01	<u>18.4</u>	338.56
<u>36.0</u>	1296.00	<u>18.0</u>	324.00
<u>32.5</u>	1056.25	<u>17.4</u>	302.76
<u>36.4</u>	1324.96	<u>18.2</u>	331.24
<u>32.4</u>	1049.76	<u>18.0</u>	324.00
<u>35.1</u>	1232.01	<u>20.2</u>	408.04
<u>37.6</u>	1413.76	<u>19.4</u>	376.36
<u>35.4</u>	1253.16	<u>19.2</u>	368.64
<u>34.6</u>	1197.16	<u>20.0</u>	400.00
<u>33.9</u>	1149.21	<u>18.6</u>	345.96
<u>40.0</u>	1600.00	<u>22.4</u>	501.76
<u>35.9</u>	1288.81	<u>18.2</u>	331.24
<u>34.2</u>	1169.64	<u>16.6</u>	275.56

all measured on
cold day (15.8° to
19°C-air temp.)

<u>34.6</u>	1197.16		
<u>37.8</u>	1428.84	$N = 39$	
<u>35.8</u>	1281.64	$\sum x = 1124.3$	
<u>35.6</u>	1267.36	$\sum x^2 = 34717.47$	

<u>25.0</u>	625.00	$\bar{x} = 28.82$	
<u>29.0</u>	841.00	$\bar{x}^2 = 830.59$	
<u>26.2</u>	686.44	$s^2 = 1.2$	
<u>27.0</u>	729.00	$s.e. = 1.057$	
<u>36.5</u>	1332.25	$= 1.25$	
<u>31.8</u>	1011.24		

<u>35.5</u>	1260.25		
<u>32.0</u>	1024.00	$\bar{x}^2 = 1144.47$	
<u>33.8</u>	1142.44	$s^2 = 13.32$	
$N = 26$		$s.e. = \sqrt{.512}$	

$$\sum x = 879.7 = .716$$

$$\sum x^2 = 30,089.35$$

$$\bar{x} = 33.83$$

UROSAURUS GRACIOSA TEMPS (BY MONTH)

APRIL

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
28.6	817.96	39.2	1536.64	24.0	576.00						
35.0	1225.00	39.5	1560.25	30.2	912.04						
36.6	1339.56	36.0	1296.00	31.0	961.00						
35.4	1253.16	40.6	1648.36	34.0	1156.00						
36.8	1354.24	39.6	1568.16	38.0	1444.00						
36.2	1310.44	39.0	1521.00	33.0	1089.00						
35.6	1267.36	34.2	1169.64	34.0	1156.00						
36.2	1310.44	31.0	961.00	37.6	1413.76						
32.0	1024.00	30.4	924.16	37.2	1383.84						
31.7	1004.89	29.0	841.00	37.0	1369.00						
35.3	1246.09	28.8	829.44	35.2	1239.04						
36.1	1303.21	29.5	870.25	33.0	1089.00						
36.5	1332.25	29.0	841.00	N = 72							
39.1	1528.81	28.4	806.56	$\sum X = 2416.5$							
26.4	696.96	27.4	750.76	$\sum X^2 = 821154.84$							
35.8	1281.64	28.2	795.24	$\bar{X} = 33.56$							
34.8	1211.04	25.0	625.00	$(\bar{X})^2 = 1126.27$							
29.8	888.04	25.4	645.16	$S^2 = 12.0$							
39.9	1592.01	28.2	795.24	$S.E. = \sqrt{1.306}$							
36.6	1339.56	30.6	936.36	$= .553$							
36.2	1310.44	32.0	1024.00								
35.8	1281.64	33.4	1115.56								
36.0	1296.00	26.0	676.00								
40.4	1632.16	22.4	501.76								
40.6	1648.36	32.0	1024.00								
35.0	1225.00	33.2	1102.24								
39.2	1536.64	33.2	1102.24								
38.2	1459.24	29.8	888.04								
41.4	1713.96	26.0	676.00								
40.4	1632.16	27.8	772.84								

UROSAURUS GRACIOSA TEMPS (BY MONTH)

MAY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
<u>33.9</u>	1149.21														
<u>38.6</u>	1489.96														
<u>38.4</u>	1474.56														
<u>33.8</u>	1142.44														
<u>34.6</u>	1197.16														
<u>28.6</u>	817.96														
<u>37.6</u>	1413.76														
<u>33.0</u>	1089.00														
<u>28.9</u>	835.21														
<u>30.5</u>	930.25														
<u>27.8</u>	772.84														
<u>29.2</u>	852.64														
<u>31.4</u>	985.96														
<u>29.5</u>	870.25														
<u>30.8</u>	948.64														
<u>28.6</u>	817.96														
<u>33.2</u>	1102.24														
<u>23.4</u>	547.56														
<u>27.8</u>	772.84														
<u>35.6</u>	1267.36														
<u>30.4</u>	924.16														

$$N = 21$$

$$\Sigma x = 665.6$$

$$\Sigma x^2 = 21,401.96$$

$$\bar{x} = 31.69$$

$$(\bar{x})^2 = 1004.25$$

$$s^2 = 15.6$$

$$s = 1.748$$

$$= .968$$

UROSAURUS GRACIOSA TEMPS (BY MONTH)

JUNE

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
39.0	1521.00	37.6	1413.76
39.9	1592.01	40.8	1664.64
38.9	1513.21	35.8	1281.64
40.7	1656.49	35.8	1281.64
40.8	1664.64	39.4	1552.36
37.6	1413.76	39.4	1552.36
35.5	1260.25	38.9	1513.21
34.6	1197.16	40.4	1632.16
39.2	1536.64	41.3	1705.69
30.0	900.00		
26.0	676.00		
27.4	750.76		
28.0	784.00		
26.8	718.24		
30.4	924.16		
25.0	625.00		
34.2	1169.64		
32.8	1075.84		
29.4	864.36		

$$N = 19$$

$$\sum x = 636.2$$

$$\sum x^2 = 21,843.16$$

$$\bar{x} = 33.48$$

$$\begin{aligned} \sum x &= 636.2 \\ N &= 19 \\ \bar{x} &= 33.48 \\ (\bar{x})^2 &= 1121.04 \\ s^2 &= 0.77 \\ s &= \sqrt{0.77} \\ &= 0.875 \end{aligned}$$

UROSAURUS GRACIOSA TEMPS
(BY MONTA)
AUGUST

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
33.4	1115.56										
38.8	1505.44										
35.5	1260.25										
36.6	1339.56										
23.0	529.00										
24.9	620.01										
33.4	1115.56										
28.6	817.96										
29.6	876.16										
40.4	1632.16										
42.6	1814.76										
41.8	1747.24										
37.4	1398.76										
34.0	1156.00										
36.4	1324.96										
39.2	1536.64										
42.2	1780.84										
41.2	1697.44										
39.8	1584.04										
41.4	1713.96										
40.8	1664.64										
39.0	1521.00										
39.4	1552.36										
39.0	1521.00										
38.6	1489.96										
37.5	1406.25										
36.0	1296.00										
42.6	1814.76										
41.4	1713.96										
37.2	1383.84										

$$N = 30$$

$$\sum X = 1111.7$$

$$\sum X^2 = 41,930.07$$

$$\bar{X} = 37.05$$

$$(\bar{X})^2 = 1372.70$$

$$S^2 = 25.8$$

$$S.E. = \sqrt{25.8}$$

$$= 5.08$$

UROSAURUS GRACIOSA TEMPS (BY MONTH)

SEPTEMBER

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
<u>37.8</u>	1428.84	<u>38.6</u>	1489.96								
<u>33.9</u>	1149.21	<u>38.2</u>	1459.24								
<u>36.0</u>	1296.00	<u>39.0</u>	1521.00								
<u>35.7</u>	1274.49	<u>38.4</u>	1474.56								
<u>36.6</u>	1339.56	<u>39.0</u>	1521.00								
<u>37.4</u>	1398.76										
<u>37.4</u>	1398.76										
<u>38.3</u>	1466.89										
<u>39.4</u>	1552.36										
<u>37.1</u>	1376.41										
<u>34.7</u>	1204.09										
<u>30.8</u>	948.64										
<u>35.5</u>	1260.25										
<u>37.5</u>	1406.25										
<u>35.5</u>	1260.25										
<u>37.8</u>	1428.84										
<u>40.6</u>	1648.36										
<u>41.0</u>	1681.00										
<u>41.0</u>	1681.00										
<u>39.0</u>	1521.00										
<u>39.2</u>	1536.64										
<u>34.0</u>	1156.00										
<u>35.0</u>	1225.00										
<u>36.0</u>	1296.00										
<u>36.4</u>	1324.96										
<u>36.0</u>	1296.00										
<u>36.8</u>	1354.24										
<u>35.4</u>	1253.16										
<u>36.0</u>	1296.00										
<u>36.8</u>	1354.24										
<u>39.8</u>	1584.04										

$$n = 36$$

$$\sum X = 1337.6$$

$$\sum X^2 = 49,863.50$$

$$\bar{X} = 27.15$$

$$(\bar{X})^2 = 1340.12$$

$$S^2 = 5.12$$

$$S.E. = \sqrt{1.142}$$

$$= .377$$

UROSAURUS GRACIOSA TEMPS
(BY MONTH)

OCTOBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
-----	-------	-----	-------	-----	-------	-----	-------	-----	-------	-----	-------

35.6	1267.36										
------	---------	--	--	--	--	--	--	--	--	--	--

37.5	1406.25										
------	---------	--	--	--	--	--	--	--	--	--	--

37.4	1398.76										
------	---------	--	--	--	--	--	--	--	--	--	--

32.2	1036.84										
------	---------	--	--	--	--	--	--	--	--	--	--

$N = 4$

$\sum x = 142.7$

$\sum x^2 = 5109.21$

$\bar{x} = 35.67$

$(\bar{x})^2 = 1272.34$

39.8	1584.04										
------	---------	--	--	--	--	--	--	--	--	--	--

40.4	1632.16										
------	---------	--	--	--	--	--	--	--	--	--	--

33.8	1142.44										
------	---------	--	--	--	--	--	--	--	--	--	--

40.1	1608.01										
------	---------	--	--	--	--	--	--	--	--	--	--

37.0	1369.00										
------	---------	--	--	--	--	--	--	--	--	--	--

33.8	1142.44										
------	---------	--	--	--	--	--	--	--	--	--	--

$\sum x = 367.6$

$\sum x^2 = 13587.00$

$n = 10$

$\bar{x} = 36.8$

$(\bar{x})^2 = 1354.24$

4.99

1.499

$.71$

UROSAURUS GRACIOSA TEMPS
(BY MONTH)

NOVEMBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
29.4	864.36										
28.2	795.24										

$$N = 2$$

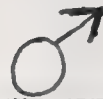
$$\Sigma x = 57.6$$

$$\Sigma x^2 = 1659.6$$

$$\bar{x} = 28.80$$

$$\bar{x}^2 = 829.44$$

UROSAURUS GRACIOSA TEMPS (BY SEM)



x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
41.4	1713.96	35.9	1288.81	39.6	1568.16	40.0	1600.00	22.4	501.76		
33.4	1115.56	34.2	1169.64	42.2	1780.84	39.4	1552.36	32.0	1024.00		
36.6	1339.56	37.8	1428.84	39.8	1584.04	38.4	1474.56	27.8	772.84		
23.0	529.00	35.8	1281.64	35.5	1260.25	38.4	1474.56	27.8	772.84		
24.9	620.01	35.6	1267.36	37.5	1406.25	42.0	1764.00	35.6	1267.36		
33.4	1115.56	35.0	1225.00	35.5	1260.25	40.8	1664.64	<u>32.8</u>	1075.84		
29.6	876.16	36.6	1339.56	35.6	1267.36	38.8	1505.44	<u>29.4</u>	864.36		
40.4	1632.16	31.7	1004.89	32.2	1036.84	41.4	1713.96	32.0	1024.00		
42.6	1814.76	35.3	1246.09	35.8	1281.64	40.8	1664.64	33.8	1142.44		
41.8	1747.24	36.1	1303.21	34.8	1211.04	39.4	1552.36	34.0	1156.00		
37.8	1428.84	36.5	1332.25	29.8	888.04	36.0	1296.00	38.0	1444.00		
33.9	1149.21	39.1	1528.81	36.0	1296.00	42.6	1814.76	37.6	1413.76		
36.0	1296.00	33.9	1149.21	40.4	1632.16	41.4	1713.96	<u>37.0</u>	1369.00		
35.7	1274.49	38.4	1474.56	40.6	1648.36	40.6	1648.36	$N = 133$			
37.4	1398.76	33.8	1142.44	35.0	1225.00	41.0	1681.00	$\sum x = 4736.5$			
39.4	1552.36	28.6	817.96	40.4	1632.16	39.0	1521.00	$\sum x^2 = 171,586.39$			
37.1	1376.41	38.9	1513.21	39.2	1536.64	39.2	1536.64	$\bar{x} = 35.61$			
34.7	1204.09	40.7	1656.49	39.5	1560.25	36.0	1296.00				
30.8	948.64	40.8	1664.64	31.4	985.96	36.0	1296.00				
25.7	660.49	37.9	1436.41	30.8	948.64	36.8	1354.24	35.8	1281.64		
31.8	1011.24	40.0	1600.00	34.6	1197.16	38.2	1459.24	35.8	1281.64		
28.6	817.96	40.5	1640.25	39.2	1536.64	38.4	1474.56	39.4	1552.36		
32.1	1030.41	38.8	1505.44	26.0	676.00	39.0	1521.00	38.9	1513.21		
34.3	1176.49	37.4	1398.76	27.4	750.76	39.6	1568.16	<u>41.3</u>	1705.69		
35.1	1232.01	34.0	1156.00	25.0	625.00	34.2	1169.64	$N = 136$			
32.4	1049.76	39.2	1536.64	39.0	1521.00	31.0	961.00	$\sum x = 4927.7$			
37.6	1413.76	25.0	625.00	39.6	1568.16	25.0	625.00	$\sum x^2 = 171,520.43$			
34.6	1197.16	26.2	686.44	39.8	1584.04	28.2	795.24	$\bar{x} = 35.70$			
33.9	1149.21	36.5	1332.25	42.0	1764.00	33.4	1115.56	$1x1 = 1274.44$			
40.0	1600.00	35.5	1260.25	39.4	1552.36	26.0	676.00	$\sum x = 32.2$			

$\sum x^2 = 171,520.43$

UROSAURUS GRACIOSA TEMPS (BY SEX)

♀

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
39.0	1521.00	40.4	1632.16	28.0	784.00	29.0	841.00	37.6	1413.76		
39.2	1536.64	38.9	1513.21	26.8	718.24	28.8	829.44	40.8	1664.64		
38.8	1505.44	39.2	1536.64	30.4	924.16	29.0	841.00	39.4	1552.36		
35.5	1260.25	39.6	1568.16	35.4	1253.16	28.4	806.56	40.4	1632.16		
28.6	817.96	39.3	1544.49	34.4	1183.36	28.2	795.24	$N = 120$			
36.6	1339.56	36.4	1324.96	42.0	1764.00	25.4	645.16	$\sum x = 4191.4$			
37.4	1398.76	29.0	841.00	40.0	1600.00	30.6	936.36	$\sum x^2 = 142,590.08$			
38.3	1466.89	27.0	729.00	40.4	1632.16	32.0	1024.00	$\bar{x} = 34.92$			
29.4	864.36	31.8	1011.24	39.6	1568.16	33.2	1102.24	$(\bar{x})^2 = 1219.40$			
28.2	795.24	35.5	1260.25	40.0	1600.00	33.2	1102.24	$s^2 = 21.2$			
28.9	835.21	41.2	1697.44	39.0	1521.00	29.8	888.04	$s = \sqrt{21.2}$			
36.0	1296.00	37.8	1428.84	38.4	1474.56	26.0	676.00	$= 4.60$			
32.5	1056.25	37.5	1406.25	39.4	1552.36	24.0	576.00				
36.4	1324.96	37.4	1398.76	39.8	1584.04	30.2	912.04				
35.1	1232.01	39.9	1592.01	39.0	1521.00	31.0	961.00				
35.4	1253.16	36.6	1339.56	39.5	1560.25	23.4	547.56				
39.6	1197.16	36.2	1310.44	39.0	1521.00	30.4	924.16				
28.6	817.96	35.8	1281.64	39.0	1521.00	34.2	1169.64				
35.4	1253.16	36.0	1296.00	38.6	1489.96	33.0	1089.00				
36.8	1354.24	39.2	1536.64	37.5	1406.25	34.0	1156.00				
36.2	1310.44	38.2	1459.24	37.2	1383.84	37.2	1383.84				
35.6	1267.36	41.4	1713.96	41.0	1681.00	35.2	1237.04				
36.2	1310.44	40.6	1648.36	36.4	1324.96	33.0	1089.00				
32.0	1024.00	33.0	1089.00	36.0	1296.00	$N = 116$					
26.4	696.96	28.9	835.21	36.8	1354.24	$\sum x = 4033.2$					
38.6	1489.96	30.5	930.25	35.4	1253.16	$\sum x^2 = 142,590.08$					
34.6	1197.16	27.8	772.84	39.8	1584.04	$\bar{x} = 34.76$					
37.6	1413.76	29.2	852.64	38.6	1489.96						
39.9	1592.01	29.5	870.25	39.0	1521.00						
37.6	1413.76	30.0	900.00	39.0	1521.00						
34.0	1156.00	35.0	1225.00	30.4	924.16						

UROSAURUS GRACIOSA TEMPS (BY AGE)

ADULT

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
39.0	1521.00	31.8	1011.24	32.0	1024.00	36.4	1324.96	40.4	1632.16	34.4	1183.36
39.2	1536.64	28.6	817.96	31.7	1004.89	39.2	1536.64	40.6	1648.36	39.6	1568.16
33.4	1115.56	28.9	835.21	35.3	1246.09	25.0	625.00	35.0	1225.00	39.8	1584.04
38.8	1505.44	32.1	1030.41	36.1	1303.21	29.0	841.00	39.2	1536.64	42.0	1764.00
35.5	1260.25	34.3	1176.49	36.5	1332.25	26.2	686.44	38.2	1458.24	42.0	1764.00
36.6	1339.56	35.1	1232.01	39.1	1528.81	27.0	729.00	41.4	1713.96	40.0	1600.00
23.0	529.00	36.0	1296.00	26.4	696.96	36.5	1332.25	40.4	1632.16	39.4	1552.36
24.9	620.01	32.5	1056.25	33.9	1149.21	31.8	1011.24	39.2	1536.64	40.4	1632.16
33.4	1115.56	36.4	1324.96	38.6	1489.96	35.5	1260.25	39.5	1560.25	39.6	1568.16
28.6	817.96	32.4	1049.76	38.4	1474.56	35.5	1260.25	36.0	1296.00	40.0	1600.00
29.6	876.16	35.1	1232.01	33.8	1142.44	39.6	1568.16	40.6	1648.36	39.6	1568.16
40.4	1632.16	37.6	1413.76	34.6	1197.16	42.2	1780.84	33.0	1089.00	38.4	1474.56
42.6	1814.76	35.4	1253.16	28.6	817.96	41.2	1697.44	28.9	835.21	40.0	1600.00
41.8	1747.24	34.6	1197.16	37.6	1413.76	39.8	1584.04	30.5	930.25	39.4	1552.36
37.8	1428.84	33.9	1149.21	39.9	1592.01	35.5	1260.25	27.8	772.84	39.8	1584.04
33.9	1149.21	40.0	1600.00	38.9	1513.21	37.5	1406.25	29.2	852.64	39.4	1552.36
36.0	1296.00	35.9	1288.81	40.7	1656.49	35.5	1260.25	31.4	985.96	38.4	1474.56
35.7	1274.49	34.2	1169.64	40.8	1664.64	37.8	1428.84	29.5	870.25	38.4	1474.56
36.6	1339.56	34.6	1197.16	37.6	1413.76	35.6	1267.36	30.8	948.64	42.6	1814.76
37.4	1398.76	37.8	1428.84	37.9	1436.41	37.5	1406.25	34.6	1197.16	40.8	1664.64
37.4	1398.76	35.8	1281.64	40.4	1632.16	37.4	1398.76	39.2	1536.64	39.0	1521.00
38.3	1466.89	35.6	1267.36	38.9	1513.21	32.2	1036.84	30.0	900.00	38.8	1505.44
39.4	1552.36	28.6	817.96	39.2	1536.64	35.8	1281.64	26.0	676.00	39.5	1560.25
37.1	1376.41	35.0	1225.00	40.0	1600.00	34.8	1211.04	27.4	750.76	41.4	1713.96
34.7	1204.09	36.6	1339.56	39.6	1568.16	29.8	888.04	28.0	784.00	40.8	1664.64
30.8	948.64	35.4	1253.16	39.3	1544.49	39.9	1592.01	26.8	718.24	39.0	1521.00
29.4	864.36	36.8	1354.24	40.5	1640.25	36.6	1339.56	30.4	924.16	39.4	1552.36
28.2	795.24	36.2	1310.44	38.8	1505.44	36.2	1310.44	25.0	625.00	39.0	1521.00
28.9	835.21	35.6	1267.36	37.4	1398.76	35.8	1281.64	35.4	1253.16	38.6	1489.96
25.7	660.49	36.2	1310.44	34.0	1156.00	36.0	1296.00	39.0	1521.00	37.5	1406.25
40.6	1648.36	41.0	1681.00	41.0	1681.00	39.0	1521.00	39.2	1536.64	34.0	1156.00

UROSAURUS GRACIOSA TEMPS (BY AGE)

ADULT

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
36.0	1296.00	28.2	795.24	37.6	1409.76						
41.4	1713.96	30.6	936.36	40.8	1664.64						
37.2	1383.84	32.0	1024.00	35.8	1281.64						
35.0	1225.00	33.4	1115.56	39.4	1552.36						
36.0	1296.00	26.0	676.00	39.4	1552.36						
36.4	1324.96	22.4	501.76	38.9	1513.21						
36.0	1296.00	33.2	1102.24	40.4	1632.16						
36.8	1354.24	29.8	888.04								
35.4	1253.16	26.0	676.00								
36.0	1296.00	24.0	576.00								
36.8	1354.24	30.2	912.04								
39.8	1584.04	31.0	961.00								
38.6	1489.96	23.4	547.56								
38.2	1459.24	27.8	772.84								
39.0	1521.00	35.6	1267.36								
38.4	1474.56	30.4	924.16								
39.0	1521.00	34.2	1169.64								
39.6	1568.16	32.8	1075.84								
39.0	1521.00	29.4	864.36								
34.2	1169.64	32.0	1024.00								
31.0	961.00	33.8	1142.44								
30.4	924.16	34.0	1156.00								
29.0	841.00	38.0	1444.00								
28.8	829.44	33.0	1089.00								
29.5	870.25	34.0	1156.00								
29.0	841.00	37.6	1413.76								
28.4	806.56	37.2	1383.84								
27.4	750.76	33.0	1089.00								
28.2	795.24										
25.0	625.00										
25.4	645.16										

Total Urosaurus

$$\bar{x} = 35.3$$

$$s^2 = 21.7$$

$$N = 245$$

$$\sum x = 8607.5$$

$$\sum x^2 = 308,694.77$$

$$\bar{x} = 35.13$$

UROSAURUS GRACIOSA TEMPS
(BY AGE)

IMMATURE

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
42.0	1764.00										
32.0	1024.00										
33.2	1102.24										
27.8	772.84										
37.0	1369.00										
35.2	1239.04										
<hr/>											
$N = 6$											

$$\sum x = 207.2$$
$$\sum x^2 = 7271.12$$
$$\bar{x} = 34.53$$

$$35.8 \quad 1281.64$$

$$41.3 \quad 1705.69$$

$$N = 8$$

$$\sum x = 284.3$$

$$\sum x^2 = 10,258.45$$

$$\bar{x} = 35.53$$

$$187^2 = 1262.38$$

$$s^2 = 22.8$$

$$S.E. = \sqrt{2.15}$$
$$= 1.69$$

UROSAURUS GRACIOSA TEMPS
(BY AGE)

JUVENILE

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
41.4	1713.96										

$$N = 1$$

$$\sum x = 41.4$$

$$\bar{x} = 41.4$$

$$\sum x^2 = 1713.96$$

$$\bar{x}^2 = 1713.96$$

UTA
STWISAUAIAM

UTA
STANISBUANA

UTA STANSBURIANA TEMPS
(BY MONTH)

JANUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
30.2	912.04			33.8							
30.0	900.00			36.0							
36.0	1296.00			33.8							
35.6	1267.36										
35.4	1253.16										

$$N = 5$$

$$\sum x = 167.2$$

$$\sum x^2 = 5628.56$$

$$\bar{x} = 33.44$$

$$(\bar{x})^2 = 1118.23$$

$$s^2 = 9.35$$

$$s = \sqrt{9.35}$$

$$= 3.06$$

UTA STANSBURIANA TEMPS (BY MONTH)

FEBRUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
37.0	1369.00										
31.8	1011.24										
30.8	948.64										
36.6	1339.56										
36.8	1354.24										
37.0	1369.00										
35.6	1267.36										
36.4	1324.96										
31.6	998.56										
37.4	1398.76										
36.6	1339.56										
34.8	1211.04										
31.4	985.96										

$$N = 13$$

$$\sum x = 453.8$$

$$\sum x^2 = 15917.88$$

$$\bar{x} = 34.9$$

$$(\bar{x})^2 = 1218.01$$

$$\text{Range} = 30.8 - 37.4$$

$$s^2 = \frac{15917.88 - 13(1218.01)}{12} = \frac{83.75}{12} = 6.98$$

$$SE = \sqrt{\frac{6.98}{13}} = \sqrt{.53} = .73$$

$$\begin{array}{r} 2SE \\ \hline 33.4 \\ 36.4 \end{array}$$

UTA STANSBURLAND TEMPS (BY MONTH)

MARCH

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
33.8	1142.44	36.8	1354.24								
33.0	1089.00	36.0	1296.00								
36.8	1359.24	36.2	1310.44								
36.9	1361.61	35.2	1239.04								
30.8	948.64	36.2	1310.44								
34.3	1176.49	35.0	1225.00								
31.0	961.00	32.8	1075.84								
35.6	1267.36	33.2	1102.24								
36.0	1296.00	35.0	1225.00								
36.6	1339.56	33.0	1089.00								
34.8	1211.04	28.4	806.56								
35.9	1288.81	33.4	1115.56								
35.4	1253.16	36.2	1310.44								
33.2	1102.24	39.6	1568.16								
36.0	1296.00	35.5	1260.25								
37.4	1398.76										
36.8	1354.24										
33.9	1149.21										
33.6	1128.96										
35.3	1246.09										
36.0	1296.00										
34.0	1156.00										
35.0	1225.00										
34.6	1197.16										
36.0	1296.00										
33.7	1135.69										
32.4	1049.76										
34.8	1211.04										
36.6	1339.56										
34.6	1197.16										

$$N = 45$$

$$\sum x = 1567.3$$

$$\sum x^2 = 54756.43$$

$$\bar{x} = 34.82$$

$$\bar{x} = 1212.43$$

$$s^2 = 4.48$$

$$s.e. = 2.116$$

$$= .216$$

UTA STANSBURIANA TEMPS (BY MONTH)

APRIL

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
36.8	1354.24										
38.6	1489.96										
36.8	1354.24										
35.3	1246.09										
30.6	936.36										
37.2	1383.84										
35.4	1253.16										
32.8	1075.84										
35.9	1288.81										
37.5	1406.25										
33.2	1102.24										
32.8	1075.84										
30.5	930.25										
30.7	942.49										
30.4	924.16										
39.2	1169.64										
36.6	1339.56										
39.8	1211.04										
37.0	1369.00										
32.4	1049.76										
35.0	1225.00										
34.4	1183.36										
33.0	1089.00										
35.4	1253.16										
39.0	1521.00										
30.5	930.25										
38.0	1444.00										

$$N = 27$$

$$\sum x = 934.8$$

$$\sum x^2 = 32548.54$$

$$\bar{x} = 34.62$$

$$\overline{x^2} = 1198.54$$

UTA STANSBURIANA TEMPS
(BY MONTH)

MAY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
<u>35.6</u>	1267.36										
34.4	1183.36										
34.8	1211.04										
<u>32.6</u>	1062.76										
36.0	1296.00										
38.4	1474.56										
33.0	1089.00										
34.8	1211.04										
29.0	841.00										
37.0	1369.00										
38.2	1459.24										
26.0	676.00										
<u>30.6</u>	<u>936.36</u>										

$$N = 13$$

$$\sum x = 440.4$$

$$\sum x^2 = 15076.72$$

$$\bar{x} = 33.87$$

$$(\bar{x})^2 = 1147.17$$

$$s^2 = 13.6$$

$$S.E. = \sqrt{1.05}$$
$$= 1.02$$

UTA STANSBURIANA TEMPS
(BY MONTH)

JULY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
36.0	1296.00										
36.0	1296.00										
33.5	1122.25										
35.6	1267.36										
35.0	1225.00										
34.2	1169.64										
33.9	1149.21										

$$N = 7$$

$$\Sigma x = 244.2$$

$$\Sigma x^2 = 8525.46$$

$$\bar{x} = 34.88$$

$$(\bar{x})^2 = 1216.61$$

$$s^2 = 1.53$$

$$S.E. = \sqrt{1.218}$$

$$= .467$$

UTA STANSBURIANA TEMPS (BY MONTH)

AUGUST

x	x ²	x	x ²	x	x ²	x	x ²	x	x ²	x	x ²
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34.0 1156.00

38.0 1444.00

35.4 1253.16

37.7 1421.29

37.0 1369.00

36.8 1354.24

37.4 1398.76

N = 7

$\Sigma x = 256.3$

$\Sigma x^2 = 9396.45$

$\bar{x} = 36.61$

$(\bar{x})^2 = 1340.39$

$s^2 = 2.40$

$S.E. = \sqrt{.803}$

$= .586$

36.8 1354.24

37.8 1428.84

37.1 1376.41

39.4 1552.36

36.8 1354.24

38.2 1459.24

37.8 1428.84

37.2 1383.84

$$s^2 = \frac{20734.46 - 15(1376.41)}{14} = \frac{88.31}{14} = 6.31$$

$$S.E. = \sqrt{\frac{6.31}{15}} = \sqrt{.42} = .65$$

N = 15

$\Sigma x = 557.4$

$\Sigma x^2 = 20734.46$

$\bar{x} = 37.1$

$(\bar{x})^2 = 1376.41$

Range = 34.0 - 39.4°C

UTA STANSBURIANA TEMPS (BY MONTH)

SEPTEMBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
31.7	1004.89										
33.0	1089										
29.5	870.25										
38.0	1444.00										
37.0	1369.00										
36.6	1339.56										
35.7	1274.49										
34.8	1211.04										
36.0	1296.00										
36.3	1317.69										
35.0	1225.00										
36.2	1310.44										
36.4	1324.96										
26.6	707.56										
25.9	670.81										
39.0	1521.00										
37.8	1428.84										
39.8	1584.04										
39.8	1584.04										
35.2	1239.04										

$$N = 20$$

$$\Sigma x = 700.3$$

$$\Sigma x^2 = 24811.65$$

$$\bar{x} = 35.01$$

$$(\bar{x})^2 = 1225.70$$

$$s^2 = 15.66$$

$$s = \sqrt{15.66}$$

$$= 3.95$$

UTA STANSBURIANA TEMPS
(BY MONTH)

OCTOBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
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35.4	1253.16										
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37.5	1406.25										
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35.3	1246.09										
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$N = 3$

$\Sigma x = 108.2$

$\Sigma x^2 = 3905.5$

$\bar{x} = 36.067$

$(\bar{x})^2 = 1300.82$

UTA stansburiana Temps.
(By Month)

NOVEMBER

<u>X</u>	<u>X²</u>
37.6	1413.76
33.2	1102.24
34.0	1156.00
38.0	1444.00
37.5	1406.25
35.8	1281.64
36.5	1332.25
35.0	1225.00
<u>36.8</u>	<u>1354.24</u>

$$N = 9$$

$$\Sigma X = 324.4$$

$$\Sigma X^2 = 11,715.38$$

$$\bar{X} = 36.0$$

$$(\bar{X})^2 = 1296.00$$

UTA stansburiana Temps.
(By Month)

DECEMBER

x x²

32.6

36.6

36.4

35.2

32.0

UTA STANSBURIANA TEMPS (BY SEX)



X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
33.8	1142.44	36.0	1296.00	33.2	1102.24	38.6	1489.96	37.1			
37.2	1383.84	36.6	1339.56	35.0	1225.00	36.6	1339.56	36.8			
38.0	1444.00	34.8	1211.04	28.4	806.56	37.0	1369.00	36.8			
36.0	1296.00	35.4	1253.16	33.4	1115.56	37.0	1369.00	38.2			
36.0	1296.00	36.0	1296.00	36.2	1310.44	38.8	1505.44	37.2			
33.5	1122.25	37.4	1398.76	35.5	1260.25	37.0	1369.00	37.6			
35.6	1267.36	35.3	1246.09	30.4	924.16	36.8	1354.24	38.0			
34.0	1156.00	35.0	1225.00	34.2	1169.64	37.4	1398.76	37.5			
35.4	1253.16	34.6	1197.16	36.6	1339.56	33.0	1089.00	35.8			
37.7	1421.29	36.0	1296.00	37.8	1428.84	29.0	841.00	36.5			
37.0	1369.00	32.4	1049.76	39.8	1584.04	38.2	1459.24	36.8			
31.7	1004.89	34.8	1211.04	39.8	1584.04	34.2	1169.64	32.6			
33.0	1089.00	36.8	1354.24	32.4	1049.76	36.0	1296.00	36.6			
29.5	870.25	38.6	1489.96	35.0	1225.00	35.6	1267.36	36.4			
38.0	1444.00	35.3	1246.09	35.4	1253.16	35.4	1253.16	35.2			
37.0	1369.00	30.6	936.36	34.8	1211.04	38.0	1444.00	32.0			
36.6	1339.56	37.2	1383.84	35.2	1239.04	30.6	936.36	33.8			
34.8	1211.04	35.4	1253.16	35.6	1267.36	N = 107					
36.0	1296.00	35.9	1288.81	35.6	1267.36	$\Sigma X = 3777.2$					
36.3	1317.69	37.5	1406.25	37.0	1369.00	$\Sigma X^2 = 133177.78$					
35.0	1225.00	33.2	1102.24	36.0	1296.00	$\bar{X} = 35.30$					
36.2	1310.44	32.8	1075.84	37.0	1369.00	$W = 1246.09$					
25.9	670.81	30.7	942.49	37.0	1369.00	$SE = 6.10$					
35.4	1253.16	35.6	1267.36	37.0	1369.00	$S.E. = 1.057$					
30.2	912.04	40.2	1616.04	37.2	1383.84	$= .239$					
33.0	1089.00	34.6	1197.16	36.2	1310.44						
36.9	1361.61	36.2	1310.44	36.6	1339.56						
34.3	1176.49	35.2	1239.04	36.6	1339.56						
31.0	961.00	36.2	1310.44	35.4	1253.16						
35.6	1267.36	35.0	1225.00	35.8	1281.64						

No. 1
 1895

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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(BY SEX)



x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
38.2	1459.24	39.0	1521.00	39.4					
35.0	1225.00	35.2	1239.04	37.8					
38.0	1444.00	34.8	1211.04	37.8					
35.7	1274.49	37.0	1369.00	33.2					
36.4	1324.96	34.4	1183.36	34.0					
26.6	707.56	33.0	1089.00	35.0					
37.5	1406.25	39.0	1521.00	33.8					
35.3	1246.09	32.6	1062.76	36.0					
30.0	900.00	36.0	1296.00						
36.8	1354.24	38.4	1474.56						
30.8	948.64	39.0	1521.00						
35.9	1288.81	37.0	1369.00						
33.2	1102.24	34.0	1156.00						
36.8	1354.24	34.0	1156.00						
33.9	1149.21	33.0	1089.00						
33.6	1128.96	36.4	1324.96						
36.0	1296.00	34.8	1211.04						
34.0	1156.00	37.0	1369.00						
33.7	1135.69	33.9	1149.21						
36.6	1339.56	30.5	930.25						
36.8	1354.24	26.0	676.00						
32.8	1075.84	$N = 51$							
30.5	930.25	$\sum x = 1779.0$							
34.4	1183.36	$\sum x^2 = 62477.62$							
37.3	1391.29	$\bar{x} = 34.88$							
36.8	1354.24	$\bar{x}^2 = 1216.61$							
36.0	1296.00	$\sigma^2 = 9.61$							
32.8	1075.84	$\sigma = \sqrt{9.61}$							
33.0	1089.00	$= 3.1$							
39.6	1568.16	$= .411$							

UTA STANSBURIANA TEMPS

(BY AGE)

ADULT

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
33.8	1142.44	35.6	1267.36	35.9	1288.81	37.8	1428.84	34.0	1156.00	$N = 147$	
37.2	1383.84	36.0	1296.00	37.5	1406.25	39.8	1584.04	36.6	1339.56	$\Sigma x = 5212.6$	
38.0	1444.00	36.6	1339.56	33.2	1102.24	39.8	1584.04	35.4	1253.16	$\Sigma x^2 = 174560.12$	
38.2	1459.24	34.8	1211.04	32.8	1075.84	35.2	1239.04	35.8	1281.64	$\bar{x} = 35.22$	
36.0	1296.00	35.9	1288.81	30.5	930.25	34.8	1211.04	38.6	1489.96	$\bar{x}^2 = 1240.44$	
36.0	1296.00	35.4	1253.16	30.7	942.49	37.0	1369.00	36.6	1339.56	$s^2 = 1.045$	
33.5	1122.25	33.2	1102.24	35.6	1267.36	32.4	1049.76	33.0	1089.00	$s = 1.022$	
35.6	1267.36	36.0	1296.00	34.4	1183.36	35.0	1225.00	37.0	1369.00		
35.0	1225.00	37.4	1398.76	37.3	1391.29	34.4	1183.36	37.0	1369.00	36.8	
34.0	1156.00	36.8	1354.24	40.2	1616.04	33.0	1089.00	38.8	1505.44	37.8	
38.0	1444.00	33.9	1149.21	34.6	1197.16	35.4	1253.16	37.0	1369.00	37.1	
35.4	1253.16	35.3	1246.09	36.8	1354.24	39.0	1521.00	36.4	1324.96	39.4	
37.7	1421.29	35.3	1246.09	36.0	1296.00	34.8	1211.04	36.8	1354.24	36.8	
33.0	1089.00	36.0	1296.00	36.2	1310.44	32.6	1062.76	37.4	1398.76	38.2	
29.5	870.25	34.0	1156.00	35.2	1239.04	36.0	1296.00	33.0	1089.00	37.8	
38.0	1444.00	35.0	1225.00	36.2	1310.44	38.4	1474.56	34.8	1211.04	37.2	
37.0	1369.00	34.6	1197.16	35.0	1225.00	35.2	1239.04	29.0	841.00	34.0	
36.6	1339.56	36.0	1296.00	32.8	1075.84	35.6	1267.36	37.0	1369.00	38.0	
35.7	1274.49	33.7	1135.69	33.2	1102.24	35.6	1267.36	38.2	1459.24	37.5	
25.9	670.81	32.4	1049.76	35.0	1225.00	39.0	1521.00	34.2	1169.64	35.8	
35.4	1253.16	34.8	1211.04	33.0	1089.00	37.0	1369.00	33.9	1149.21	36.5	
37.5	1406.25	36.6	1339.56	28.4	806.56	36.0	1296.00	36.0	1296.00	35.0	
30.2	912.04	36.8	1354.24	33.4	1115.56	37.0	1369.00	35.6	1267.36	36.8	
30.0	900.00	38.6	1489.96	36.2	1310.44	37.0	1369.00	35.4	1253.16	36.6	
33.0	1089.00	36.8	1354.24	39.6	1568.16	34.0	1156.00	38.0	1444.00	36.4	
36.8	1354.24	35.3	1246.09	35.5	1260.25	37.0	1369.00	30.5	930.25	35.2	
36.9	1361.61	30.6	936.36	30.4	924.16	37.0	1369.00	26.0	676.00	32.0	
30.8	948.64	37.2	1383.84	34.2	1169.64	37.2	1383.84	30.6	936.36	36.0	
34.3	1176.49	35.4	1253.16	36.6	1339.56	36.2	1310.44				
31.0	961.00	32.8	1075.84	39.0	1521.00	36.6	1339.56				

UTA STANSBURIANA TEMPS
(BY AGE)

IMMATURE

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
37.0	1369.00			37.6							
31.7	1004.89			33.2							
34.8	1211.04			32.6							
36.0	1296.00			33.8							
36.3	1317.69			33.8							
35.0	1225.00										
36.2	1310.44										
36.4	1324.96										
26.6	707.56										
35.3	1246.09										
33.6	1128.96										
36.8	1354.24										
37.4	1398.76										

$$N = 13$$

$$\Sigma x = 453.1$$

$$\Sigma x^2 = 15,814.63$$

$$\bar{x} = 34.85$$

$$\bar{x}^2 = 1214.52$$

$$s^2 = 9.82$$

$$s = \sqrt{9.82}$$

$$= 3.13$$

UTA STANSBURIANA TEMPS
(BY AGE)

JUVENILE

x x² x x² x x² x x² x x² x x²

Thermal Gradient

<u>Callisaurus</u>		
<u>Crotaphytus wis.</u>	 	
<u>Uma notata</u>		
<u>Phrynosoma platy.</u>		
<u>Phrynosoma coronatum</u>		
<u>Sceloporus magister</u>		
<u>Urosaurus graciorus</u>		

Callisaurus

Capt April 11-12/69 Algodones Field Trip

2nd Day in Gradient 4/19/69

Lights on at 8:15

Reading every 17 min. starting @ ~~11:30~~ 11:00AM

1	37.2
2	38.6
3	39.2
4	38.3
5	39.0
6	40.7
7	39.8
8	38.2
9	39.4
10	39.4
11	39.3
12	39.1
13	39.1
14	40.1
15	37.8
16	38.3
17	39.2
18	38.2
19	37.8
20	38.7
21	38.4
22	39.4
23	38.9
24	38.5
25	38.0

ON ROLL #3		<u>Callisaurus draconoides</u> from Mojave Field Trip					(May 16-18)	
		(NOT CONNECTED) 8	(DEAD) 13		17 (DEAD)		22	Data from 2nd day in chamber readings every 15 minutes lights on at 1000. Readings from H45
1	38.3		Not in heat at all. Temp. remains at approx 26.4°C.				37.3	
2	38.6						37.2	
3	38.6						37.5	
4	39.7						37.6	
5	39.1						37.5	
6	34.7						37.0	
7	38.9						36.8	
8	40.1						36.9	
9	39.7						37.2	
10	39.4						36.9	
11	40.6						36.6	
12	37.4						37.4	
13	37.3						37.6	
14	36.7						37.7	
15	36.9						37.7	
16	37.1						37.4	
17	37.5						37.5	
18	37.8						38.0	
19	37.9						37.2	
20	35.1						37.0	
21	38.6						36.3	
22	38.2						37.6	
23	39.2						38.4	
24	36.5						37.7	
25	36.6						36.1	

ON ROLL
#3

Callisaurus draconoides from Mojave field trip.
(May ~~16-18~~ 23-25). Data from 2nd day in
chamber. Readings every 15 minutes.

#13

1	36.2
2	36.4
3	36.5
4	36.5
5	36.6
6	36.7
7	36.8
8	36.9
9	35.9
10	31.7
11	30.2
12	32.0
13	32.1
14	32.1
15	32.4
16	32.7
17	32.8
18	32.9
19	32.9
20	33.8
21	34.0
22	34.1
23	34.3
24	34.4
25	34.4

all others dead. Data worthless because
they died at the beginning
of the experiment.

Crotaphytus Capt April 11-12/69 Algodones Field T

2nd Day in Gradient 4/15/69

~~11:50~~ AM - 4:15 PM (15 min intervals)

10:15

1	6	8	13
1 34.8	38.4	35.1	38.5
2 35.1	38.5	39.5	37.7
3 36.3	38.3	40.0	36.5
4 36.5	38.2	33.3	38.9
5 38.6	38.1	37.7	37.7
6 36.9	39.0	37.9	37.4
7 35.4	39.5	35.0	37.7
8 37.3	39.1	37.3	36.5
9 37.8	37.8	38.5	38.4
10 37.0	37.0	36.9	38.5
11 36.7	36.7	35.2	38.2
12 37.1	37.1	38.6	34.2
13 37.2	38.3	38.1	32.8
14 36.8	38.4	35.9	33.8
15 37.0	38.4	36.8	32.9
16 37.2	38.5	36.7	33.0
17 37.3	38.5	35.3	35.3
18 37.0	38.6	39.3	40.0
19 37.3	39.0	39.5	40.3
20 37.4	40.0	39.7	34.5
21 37.8	40.4	35.9	35.6
22 37.7	40.1	37.2	37.0
23 33.2	40.1	36.7	37.9
24 27.2			
25			

Capt. April 11-12/69 Algodones Field Trip

2nd Day in Gradient 4/18

Lights on at 8:15

Reading every 15 min beginning 11:00AM -

	# 6 <u>Uma notata</u>	# 8 <u>Uma</u>	# 13 <u>Crotaphytus</u>	# 18 <u>Crotaphytus</u>
1	33.6	32.7	36.5	38.3
2	35.7	34.6	36.0	36.7
3	32.5	33.3	36.5	37.7
4	37.0	32.9	37.1	34.3
5	36.9	35.0	36.3	35.2
6	36.8	34.6	37.3	37.9
7	36.9	33.7	39.7	30.8
8	36.9	33.2	28.7 38.7	26.3
9	36.7	31.7	36.7	38.6
10	36.3	35.7	35.3	29.1
11	33.5	34.6	39.8	37.2
12	35.0	35.1	40.4	37.4
13	34.8	34.5	37.5	37.5
14	33.7	34.0	37.8	39.5
15	33.8	34.3	36.5	30.1
16	32.3	34.4	38.8	26.4
17	32.8	34.1	42.1	25.2
18	34.5	34.5	38.0	24.7
19	31.9	34.3	34.6	24.8
20	35.5	34.4	32.0	24.9
21				
22				
23				
24				
25				

CN ROLL
#3

Crotaphytus wislizenii from Mojave field trip.
(May 16-18). Data from second day in chamber.
Reading every 15 minutes. Lights on at 1000.
Readings from 1200.

(DISCONNECTED)

	1	6	13	17	22
1	34.7	38.7	37.3	34.7	37.8
2	37.3	37.9	36.8	34.2	37.7
3	38.5	37.3	37.5	33.5	37.8
4	38.1	37.9	39.3	33.4	38.6
5	38.2	38.2	39.9	33.3	37.4
6	38.3	38.4	37.1	33.4	36.8
7	38.5	39.5	39.0	38.7	36.9
8	37.6	39.8	39.1	34.0	36.9
9	33.4	39.7	39.5	34.2	37.0
10	34.9	40.3	39.5	34.3	37.0
11	40.0	40.4	39.3	34.2	36.6
12	39.7	39.5	37.2	38.7	36.6
13	39.1	38.2	38.2	38.5	36.3
14	38.9	37.3	38.3	34.9	36.4
15	38.8	33.1	37.8	26.9	36.0
16	38.8	40.8	37.7	31.9	36.0
17	38.4	34.9	33.0	32.3	33.9
18	37.0	38.7	38.3	33.8	40.0
19	36.7	38.2	38.6	31.0	38.0
20	33.7	36.9	39.0	29.5	37.3
21	34.2	36.6	39.0	39.6	37.1
22	31.0	37.8	39.1	28.9	37.2
23	34.8	38.6	39.1	25.5	37.3
24	35.3	37.5	39.3	24.8	37.6
25	35.5	41.2	39.3	24.6	37.6

ON ROLL
3

Phrynosoma platyrhinos collected on Mojave field
trip (May 23-25). Lights on at 1000. Data from
Data from second day in chamber readings every
15 minutes. Recorded from 1145.

	(LEAD)	(DEAD)		(DEAD)	
	1	6	13	17	22
1	28.6	32.9	35.6		37.1
2	28.7	31.5	35.6		35.6
3	28.7	32.1	34.8		34.9
4	28.3	35.9	32.7		33.4
5	28.5	35.6	35.7		33.2
6	28.9	33.4	31.2		33.0
7	28.2	32.2	32.0		32.9
8	28.1	33.1	35.3		32.8
9	28.2	33.7	37.7		32.8
10	28.2	34.1	38.5		32.8
11	28.3	34.3	38.4		32.9
12	28.3	34.5	38.9		32.9
13	27.4	35.0	39.2		33.2
14	30.9	34.9	39.3		33.1
15	28.0	34.7	39.3		33.2
16	28.3	34.6	39.3		33.1
17	27.8	34.6	39.3		33.1
18	28.5	34.5	39.2		33.2
19	28.1	34.3	39.2		33.3
20	28.7	32.3	39.3		33.4
21	28.5	32.4	39.5		36.6
22	28.8	32.9	37.3		36.8
23	28.9	33.3	35.3		36.2
24	28.5	33.5	34.7		35.6
25	28.3	33.9	34.5		35.8

Did early in the experiment. ~~Data~~ No usable data.

on Roll
#2

Paymaster's account, Dr. North Virginia Copper, Inc.
Washington, D.C. 20001 5/18/19 2nd day in
Charles County, Maryland 15 mi

	1	6	8	13	18
1	25.1	35.3	34.6	37.1	35.5
2	25.9	35.9	36.9	39.1	35.6
3	26.3	36.5	34.0	35.9	35.4
4	26.9	38.4	33.3	33.3	34.7
5	27.5	36.2	35.7	33.3	34.6
6	27.8	36.1	34.8	31.2	34.8
7	28.1	37.1	35.1	29.9	35.1
8	28.4	37.5	34.2	29.5	35.4
9	35.6	37.5	34.1	29.6	35.5
10	35.1	36.4	34.1	30.3	34.4
11	38.0	36.3	33.5	30.4	38.2
12	38.4	36.0	35.7	30.1	36.8
13	37.8	35.7	36.3	34.7	36.1
14	37.5	37.0	36.2	34.6	35.6
15	37.1	36.5	36.2	34.6	34.9
16	36.9	35.7	35.9	36.0	34.8
17	36.9	36.1	35.3	41.8	34.5
18	36.3	36.7	35.1	41.0	34.5
19	35.6	36.9	34.1	32.6	34.3
20	37.0	35.4	35.4	35.5	37.0
21	37.4	36.9	34.6	34.9	37.5
22	37.0	36.7	35.3	34.5	37.2
23	36.8	36.7	35.7	33.7	35.4
24	38.0	36.5	35.9	31.9	35.7
25	38.4	37.6	35.2	31.3	36.7

Considerable
Movement up to this
point

went up
to 12.6

on Roll
#2

Went on 7/20/14
Sail leaving 8:00 AM - 10:00 AM

S. Magister ~~202~~ Capt 5/17 (Hagman Video)
2nd Day in Charge 5/20 (24 Nov 196)

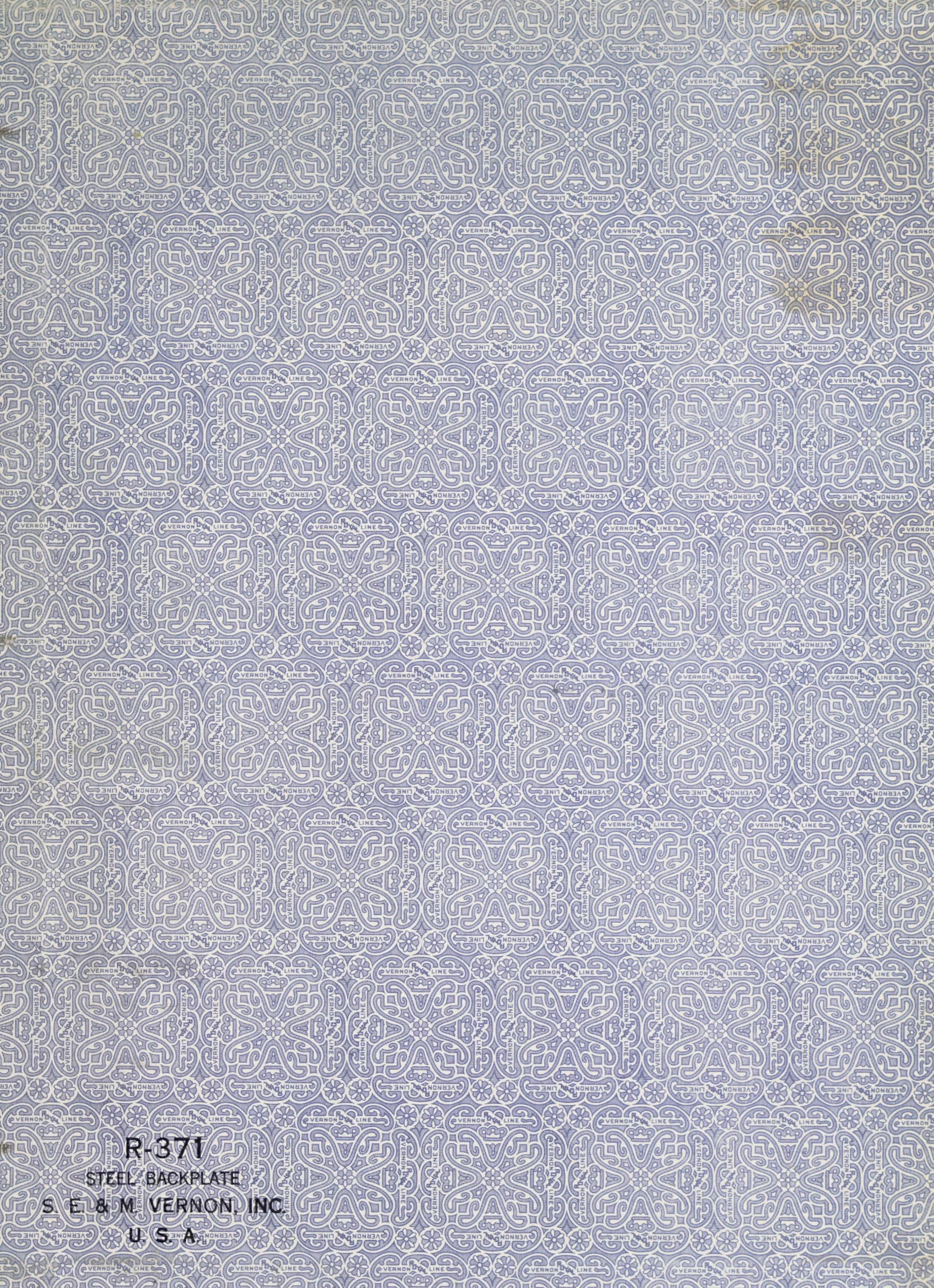
	1	✓	1150 8	16	18
1	35.9	32.6		33.2	34.2
2	36.9	32.9		33.8	35.0
3	35.5	32.3		33.2	35.5
4	35.4	33.0		33.9	33.7
5	36.9	33.1		33.4	34.7
6	36.2	33.6		33.4	35.3
7	35.6	33.7		33.3	34.4
8	36.1	32.7		34.0	38.6
9	35.6	31.7		33.9	37.3
10	32.7	32.8		35.0	36.5
11	36.6	33.0		34.9	36.1
12	35.2	33.0		34.6	34.9
13	34.8	33.3		34.0	34.6
14	34.6	34.0		33.1	34.5
15	36.0	34.2		33.1	34.3
16	36.3	33.3		33.7 32.8	34.7
17	35.9	33.1		33.4	34.9
18	36.2	32.2		32.5	35.2
19	34.5	32.2		32.3	34.5
20	34.0	32.3		32.7	34.0
21	34.3	32.7		33.3	33.8
22	35.2	34.2		33.7	34.5
23	35.5	33.3		33.8	34.0
24	36.3	33.1		34.1	35.0
25	35.7	33.2		33.7	35.9

Urosaurus graciosus Capt. April 11-12/69 on Algodones Field Trip

Roll 1
2nd Day in Gradient 4/21

11:30 - 17:50 Lights on at 8:15
(readings every 17 min)

	#6	#8	#13	#18
1	39.5	36.2	29.5	35.3
2	40.0	33.2	30.0	35.1
3	40.1	34.4	30.0	33.7
4	40.0	35.0	30.4	33.6
5	40.2	35.2	31.3	33.6
6	40.2	35.2	31.8	34.0
7	40.3	35.2	31.9	33.8
8	40.4	35.3	32.0	34.2
9	40.7	35.6	32.9	35.1
10	41.2	37.2	33.3	35.7
11	40.0	32.7	33.7	34.9
12	38.8	31.1	33.7	29.6
13	39.9	33.9	33.9	35.0
14	39.9	34.4	33.9	35.8
15	39.9	34.6	33.9	35.8
16	40.0	34.8	33.9	35.5
17	40.1	34.9	34.2	30.4
18	40.4	35.0	34.5	27.9
19	40.8	35.3	34.6	28.8
20	40.7	30 31.4	34.3	33.7
21	40.2	30.6	33.8	33.7
22	39.9	30.9	34.2	35.0
23	40.1	33.3	34.0	35.1
24	40.4	33.9	34.0	35.1
25				



R-371

STEEL BACKPLATE

S. E. & M. VERNON, INC.

U. S. A.

